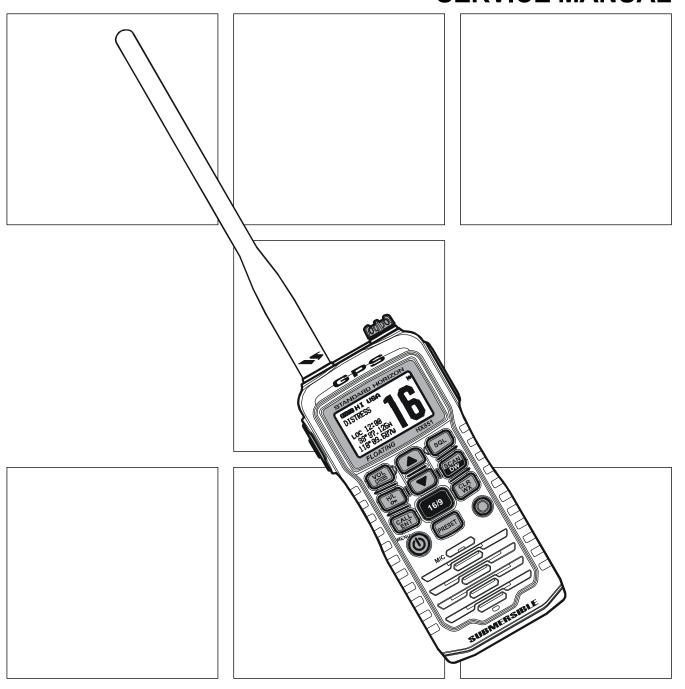


# **Floating Marine Transceiver with GPS**

# HX851

### **SERVICE MANUAL**



### **Specifications**

General

Frequency Range: TX: 156.025 MHz - 157.425 MHz

RX: 156.050 MHz - 163.275MHz

Channel Spacing: 25 kHz

Frequency Stability:  $\pm 10 \text{ ppm } (-4 \text{ °F to } +140 \text{ °F } [-20 \text{ °C to } +60 \text{ °C}])$ 

**Emission Type**: 16K0G3E for Voice, 16K0G2B for DSC

Antenna Impedance:  $50 \Omega$ 

**Supply Voltage**: 7.4V DC, Negative Ground (Battery Terminal)

**Current Consumption**: 330 mA (Receive)

100 mA (Standby, GPS On) 60 mA (Standby, GPS Off)

1.6 A / 1.6 A / 1.0 A / 0.7 A (TX: 6W / 5 W / 2.5W / 1W)

**Operating Temperature:**  $-4 \, ^{\circ}\text{F} \text{ to } +140 \, ^{\circ}\text{F} \text{ (} -20 \, ^{\circ}\text{C to } +60 \, ^{\circ}\text{C)}$ 

NMEA Input: GLL, GGA, and RMC

NMEA Output: DSC, DSE, GLL, GGA, GSA, GSV, and RMC

**Case Size** (W x H x D): 2.46" x 5.57" x 1.77" (62.5 x 141.5 x 45 mm) (w/o knob & antenna)

Weight: 11.8 oz (335 g) w/ FNB-V99LI, belt clip & antenna

**Transmitter** 

**RF Power Output**: 6 W / 5 W / 2.5 W / 1 W (@7.4 V)

**Modulation Type**: Variable Reactance

**Maximum Deviation**: ±5 kHz

**Spurious Emission**: –75 dBc typical

Microphone Impedance:  $2 k\Omega$ 

Receiver

Circuit Type: Double-Conversion Superheterodyne

**Intermediate Frequencies**: 1st: 47.25 MHz

2nd: 450 kHz

**Sensitivity**:  $0.25 \mu V$  for 12 dB SINAD

**Adjacent Channel Selectivity**: 70 dB typical **Intermodulation**: 70 dB typical

Ham & Noise Ratio: 40 dB

**Selectivity**: 12 kHz / 25 kHz (-6 dB / -60 dB)

**AF Output** (Internal SP): 700 mW @16  $\Omega$  for 10 % THD (@7.4 V)

GPS

**Receiver Channels**: 12 channels

Sensitivity: Less than -130 dBm

Time to First Fix: 1 min typical (@Cold Start)

40 sec typical (@Warm Start)

**Geodetic Datum**: WGS84

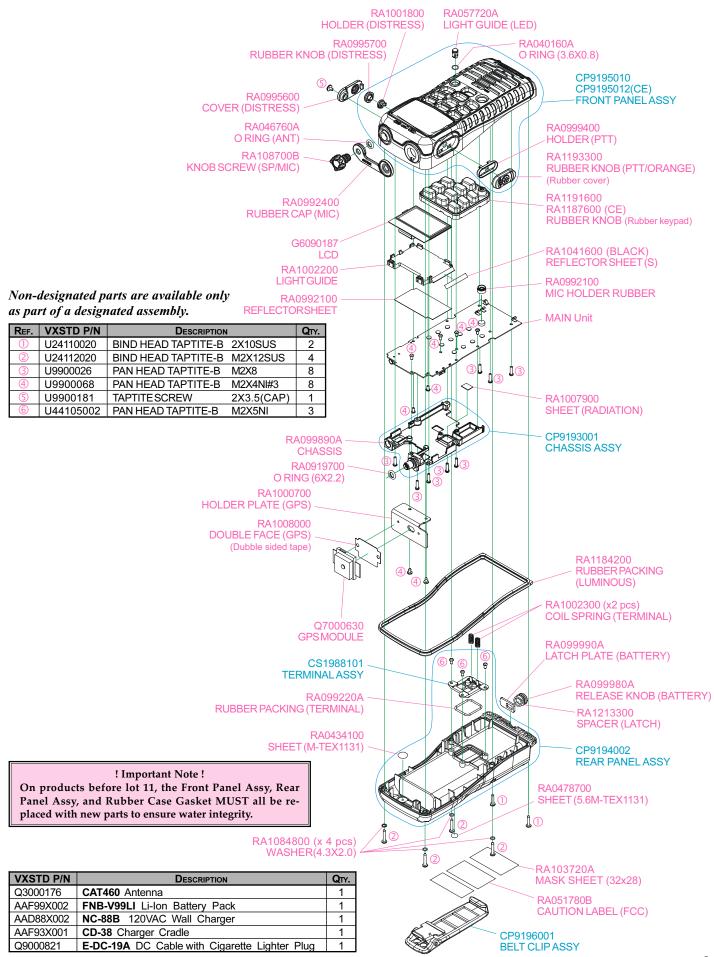
Performance specifications are nominal, unless otherwise indicated, and are subject to change without notice. Measured in accordance with TIA/EIA-603.

#### **Important Note**

This transceiver was assembled using Pb (lead) free solder, based on the RoHS specification.

Only lead-free solder (Alloy Composition: Sn-3.0Ag-0.5Cu) should be used for repairs performed on this apparatus. The solder stated above utilizes the alloy composition required for compliance with the lead-free specification, and any solder with the above alloy composition may be used.

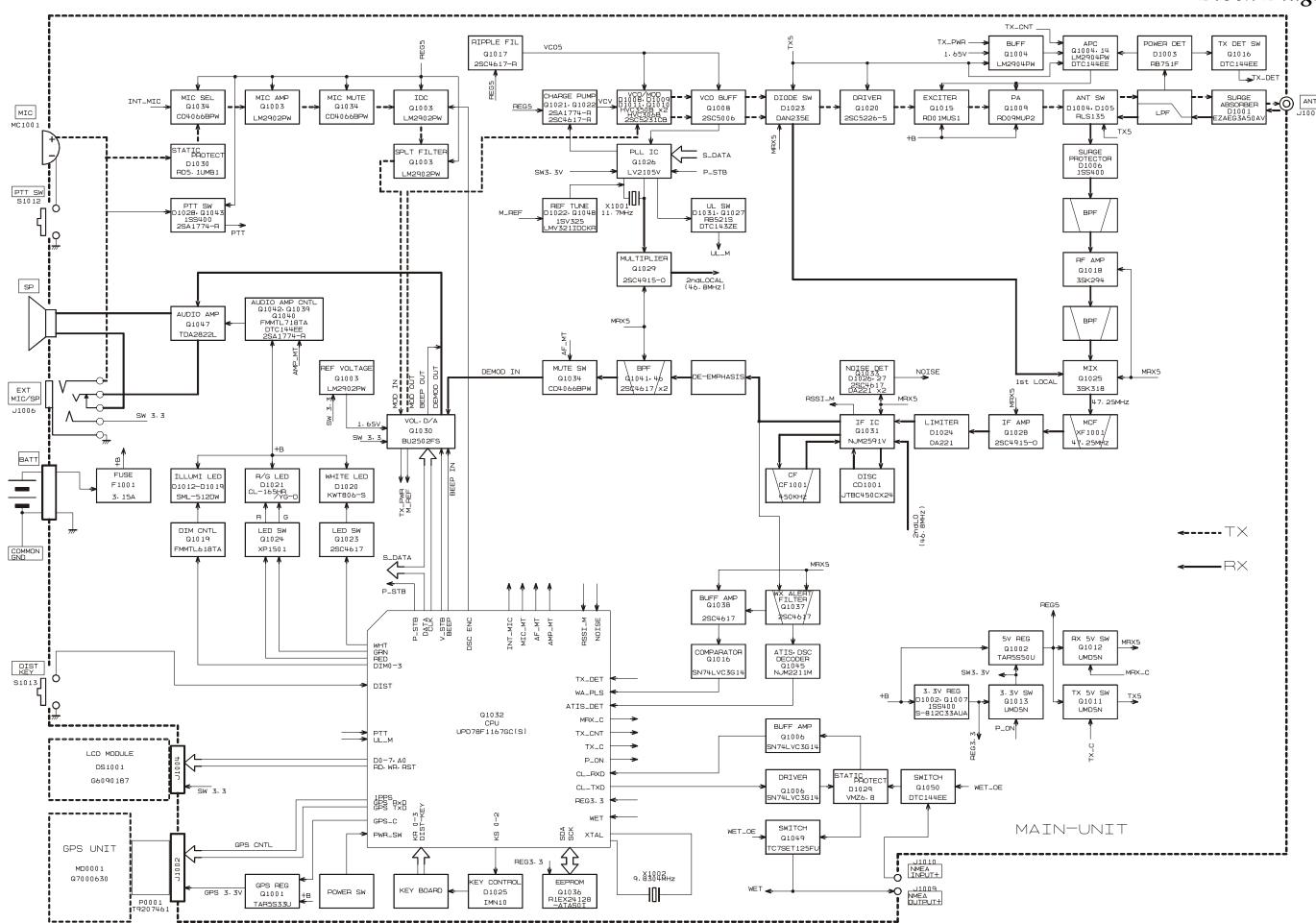
### Exploded View & Miscellaneous Parts



# Exploded View & Miscellaneous Parts

Note

# Block Diagram



# Block Diagram

Note

#### 1. Receive Signal Path

Incoming RF from the antenna jack is delivered to the Main Unit and passes through a low-pass filter consisting of coils L1001, L1002, & L1003 and capacitors C1001, C1004, C1011, C1013, & C1018 to the antenna switching diodes **D1004** & **D1005** (both **RLS135**), and enter a high-pass filter consisting of coils L1011 & L1013 and capacitors C1056, C1059, C1062, C1067, & C1074.

Signals within the frequency range of the transceiver are amplified by Q1018 (3SK294) and enter a band-pass filter consisting of coils L1019, L1020, & L1021 and capacitors C1110, C1114, C1290, C1116, C1117, C1291, C1119, C1120, & C1122 to remove unwanted signals, before first mixing by Q1025 (3SK318).

Buffered output from the VCO is amplified by **Q1008** (**2SC5008**) to provide a pure first local signal between 203.300 and 210.525 MHz for injection to the first mixer **Q1025** (**3SK318**).

The 47.25 MHz first mixer product then passes through monolithic crystal filter **XF1001** (**7050M 47.25S13A**) to strip away all but the desired signal, which is then amplified by **Q1028** (**2SC4915**). The amplified first IF signal is applied to FM IF subsystem IC **Q1031** (**NJM2591V**), which contains the second mixer, second local oscillator, limited amplifier, noise amplifier, and RSSI amplifier.

A second local signal is produced from the PLL reference/second local oscillator of **X1001** (11.7 MHz). The 11.7 MHz reference signal is quadrupled by **Q1029** (**2SC4915**), then delivered to mixer section of **Q1031** (**NJM2591V**) which produce the 450 kHz second IF mixed with the first IF signal.

The second IF then passes through the ceramic filter CF1001 (LTWC450F) to strip away unwanted mixer products, and is then applied to the limited amplifier in Q1031 (NJM2591V), which removes amplitude variations in the 450 kHz IF, before detection of the speech by the ceramic discriminator CD1001 (JTM450CX24).

#### 2. Audio Amplifier

The demodulated audio signal from the Q1031 (NJM2591V) passes through a de-emphasis network, a high-pass filter Q1046 (2SC4617-R), and a low-pass filter Q1041 (2SC4617-R). Then passes through the audio volume control section of the D/A IC Q1030 (BU2502FS) and audio mute switch Q1034 (CD4066BPW) to the audio power amplifier Q1047 (TDA2822L), providing up to 700 mW of audio power to the 16-ohm loudspeaker.

#### 3. Squelch Control

When no carrier received, noise at the output of the detector stage in Q1031 (NJM2591V) passes through a band-pass filter consisting of resistors R1160 & R1165 and capacitors C1208 & C1211 to the buffer amplifier Q1033 (2SC4617-R), then rectified by D1026 and D1027 (both DA221).

The resulting DC squelch control voltage is passed to pin 78 of the microprocessor Q1032 ( $\mu$ PD78F1167GC). If no carrier is received, this signal causes pin 99 of Q1032 ( $\mu$ PD78F1167GC) to go "low" and activates the audio mute switch Q1034 (CD4066BPW). Thus, the microprocessor blocks output from the audio amplifier, and silences the receiver, while no signal is being received (and during transmission, as well).

When a carrier appears at the discriminator, noise is removed from the output, causing pin 78 of the microprocessor Q1032 (µPD78F1167GC) to go "low", this signal causes pin 99 of Q1032 (µPD78F1167GC) to go "high" and diables the audio mute switch Q1034 (CD4066BPW), thus allowing audio to pass through the audio amplifier Q1047 (TDA2822L) to the loudspeaker.

#### 4. Transmit Signal Path

The speech input from the microphone MC1001 passes through the microphone select switch Q1034 (CD4066BPW) to the audio amplifier section of Q1003 (LM2902PW) which adjusts the microphone gain. The speech signal passes through the IDC section and low-pass filter of Q1003 (LM2902PW).

The filtered audio signal is applied to Q1030 (BU2502FS) which adjusts the modulation to the optimum level, then is applied to varactor diode D1011 (HVC306B) which frequency modulates the VCO Q1010 (2SC5231).

The modulated signal from the VCO Q1010 (2SC5231) is buffered by Q1008 (2SC5006). The low-level transmit signal is then passes through the TX switching diode D1023 (DAN235E) to the driver amplifier Q1020 (2SC5226), exciter amplifier Q1015 (RD01MUS1), then amplified transmit signal is applied to the final amplifier Q1009 (RD09MUS2) up to 6.0 watts output power.

The transmit signal passes through the antenna switch D1004 (RLS135) and is low-pass filtered to suppress harmonic spurious radiation before delivery to the antenna.

#### 4-1 Automatic Transmit Power Control

Current from the final amplifier Q1009 (RD09MUS2) is sampled by C1009 and C1020, and rectified by D1003 (RB751F). The resulting DC is compared with the power control voltage from the RF power controller section of the D/A IC Q1030 (BU2502FS) by Q1004 (LM2904PW). As a result, the compared output voltage controls the bias level of the exciter amplifier Q1015 (RD01MUS1) and final amplifier Q1009 (RD09MUS2), for control of the power output.

#### 4-2 Spurious Suppression

Generation of spurious products by the transmitter is minimized by the fundamental carrier frequency being equal to final transmitting frequency, modulated directly in the VCO Q1010 (2SC5231). Additional harmonic suppression is provided by a low-pass filter consisting of coils L1001, L1002, & L1003 and capacitors C1001, C1004, C1011, C1013, & C1018, resulting in more than 60 dB of harmonic suppression prior to delivery to the antenna.

#### 5. PLL Frequency Synthesizer

The PLL circuitry on the Main Unit consists of VCO Q1010 (2SC5231), VCO buffer Q1008 (2SC5006), PLL subsystem IC Q1026 (LV2105V), which contains a reference divider, serial-to-parallel data latch, programmable divider, phase comparator, & charge pump, and crystal X1001 (11.7 MHz) which frequency stability is  $\pm 10$  ppm at -20 °C to +60 °C.

While receiving, VCO Q1010 (2SC5231) oscillates between 203.300 and 210.525 MHz according to the receiving frequency. The VCO output is buffered by Q1008 (2SC5006), then applied to the prescaler section of Q1026 (LV2105V). There the VCO signal is divided according to a control signal from the data latch section of Q1026 (LV2105V), before being sent to the programmable divider section of Q1026 (LV2105V).

The data latch section of Q1026 (LV2105V) also receives serial dividing data from the microprocessor Q1032 ( $\mu$ PD78F1167GC), which causes the pre-divided VCO signal to be further divided in the programmable divider section, depending upon the desired receive frequency, so as to produce a 12.5 kHz derivative of the current VCO frequency.

Meanwhile, the reference divider sections of **Q1026** (**LV2105V**) divides the crystal **X1001** (11.7 MHz) by 936 to produce the 12.5 kHz loops reference (respectively).

The 12.5 kHz signal from the programmable divider (derived from the VCO) and that derived from the reference oscillator are applied to the phase detector section of Q1026 (LV2105V), which produces a pulsed output with pulse duration depending on the phase difference between the input signals. This pulse train is delivered to the charge pump Q1021 (2SA1774) and Q1022 (2SC4617-R), then filtered to DC and returned to the Varactor D1008 and D1009 (both HVC350B).

Changes in the level of the DC voltage applied to the Varactor, affecting the reference in the tank circuit of the VCO according to the phase difference between the signals derived from the VCO and the crystal reference oscillator.

The VCO is thus phase-locked to the crystal reference oscillator. The output of the VCO Q1010 (2SC5231) after buffering by Q1008 (2SC5006), is applied to the first mixer as described previously.

For transmission, the VCO Q1010 (2SC5231) oscillates between 156.025 and 157.425 MHz according to the transmit frequency. The remainder of the PLL circuitry is shared with the receiver. However, the dividing data from the microprocessor is such that the VCO frequency is at the actual transmit frequency (rather than offset for IFs, as in the receiving case). Also, the VCO is modulated by the speech audio applied to D1011 (HVC306B), as described previously.

#### 6. DSC Encoder/Decoder

#### 6-1 Encoder

The microprocessor Q1032 ( $\mu$ PD78F1167GC) encodes the DSC (Digital Selective Calling) signals. This signal is input into the IDC section of Q1003 (LM2902PW).

The processes of DSC transmitting are the same as voice modulation.

#### 6-2 Decoder

The received DSC signals on channel 70 are filtered by a low-pass filter Q1037 (2SC4617-R). Then this signal is input into the FSK decoder IC Q1045 (NJM2211M) to convert the analog signal into the digital code. Microprocessor Q1032 (µPD78F1167GC) watches the digital code and is computing the DSC.

#### 7. 1050 Hz Weather Alert Decoder

A portion of the signal from an FM IF subsystem IC Q1031 (NJM2591V) passes through a low-pass filter Q1037 (2SC4617-R) to the amplifier Q1038 (2SC4617-R). The amplified signal is delivered to the Schmitt Inverter IC Q1016 (SN74LVC3G14DCT) to obtain the weather alert tone pulse. The microprocessor Q1032 ( $\mu$ PD78F1167GC) watches this pulse to count the weather alert tone frequency.

#### 8. Miscellaneous Circuits

#### 8-1 MPU

Operation is controlled by a microprocessor Q1032 (µPD78F1167GC). This microprocessor uses a 9.8304 MHz crystal X1002 for the system clock. This microprocessor includes a reset circuit.

#### 8-2 EEPROM

The EEPROM Q1036 (BR24L64F-W) retains TX and RX data for all memory channels, prescaler dividing, IF frequency, local oscillator injection side, and reference oscillator data.

#### 8-3 PTT circuit

The PTT switch for the internal microphone is connected to pin 5 of microprocessor Q1032 ( $\mu$ PD78F1167GC), so that when the PTT switch is closed, pin 5 of Q1032 ( $\mu$ PD78F1167GC) goes "low". The microprocessor Q1032 ( $\mu$ PD78F1167GC) disables the receiver by disabling the 5 V supply bus at Q1012 (UMD5N) to the frontend and FM IF subsystem IC Q1031 (NJM2591V). At the same time, Q1011 (UMD5N) activate the transmit 5 V supply line to enable the transmitter.

Note

The **HX851** has been carefully aligned at the factory for the specified performance across the VHF Marine band.

Realignment should therefore not be necessary except in the event of a component failure.

All component replacement and service should be performed only by an authorized STANDARD HORIZON representative, or the warranty policy may be voided.

The following procedures cover the sometimes critical and tedious adjustments that are not normally required once the transceiver has left the factory. However, if damage occurs and some parts are replaced, realignment may be required. If a sudden problem occurs during normal operation, it is likely due to component failure; realignment should not be done until after the faulty component has been replaced.

We recommend that servicing be performed only by authorized STANDARD HORIZON service technicians who are experienced with the circuitry and fully equipped for repair and alignment. Therefore, if a fault is suspected, contact the dealer from whom the transceiver was purchased for instructions regarding repair. Authorized STANDARD HORIZON service technicians realign all circuits and make complete performance checks to ensure compliance with factory specifications after replacing any faulty components. Those who do undertake any of the following alignments are cautioned to proceed at their own risk.

Problems caused by unauthorized attempts at realignment are not covered by the warranty policy. Also, STANDARD HORIZON must reserve the right to change circuits and alignment procedures in the interest of improved performance, without notifying owners. Under no circumstances should any alignment be attempted unless the normal function and operation of the transceiver are clearly understood, the cause of the malfunction has been clearly pinpointed and any faulty components replaced, and the need for realignment determined to be absolutely necessary. The following test equipment (and thorough familiarity with its correct use) is necessary for complete realignment. Correction of problems caused by misalignment resulting from use of improper test equipment is not covered under the warranty policy. While most steps do not require all of the equipment listed, the interactions of some adjustments may require that more complex adjustments be performed afterwards. Do not attempt to perform only a single step unless it is clearly isolated electrically from all other steps. Have all test equipment ready before beginning, and follow all of the steps in a section in the order presented.

#### Required Test Equipment

- ☐ RF Signal Generator with calibrated output level at 200 MHz
- ☐ Deviation Meter (linear detector)
- ☐ AF Millivoltmeter
- ☐ SINAD Meter
- ☐ Inline Wattmeter with 5% accuracy at 200 MHz
- ☐ Regulated DC Power Supply: adjustable from 6 to 10 VDC, 2A
- □ 50-ohm Non-reactive Dummy Load: 10W at 200 MHz
- ☐ Frequency Counter: >0.1 ppm accuracy at 200 MHz
- ☐ AF Signal Generator
- DC Voltmeter: high impedance
- □ VHF Sampling Coupler
- ☐ AF Dummy Load: 8 ohm, 2W
- □ Oscilloscope
- ☐ Spectrum Analyzer
- ☐ IBM® PC/compatible computer with Microsoft® Windows® 2000, XP, or Vista
- ☐ Standard Horizon HX851 Alignment Program and Alignment Jig.

#### Alignment Preparation & Precautions

A dummy load and inline wattmeter must be connected to the main antenna jack in all procedures that call for transmission, except where specified otherwise. Correct alignment is not possible with an antenna. After completing one step, read the following step to determine whether the same test equipment will be required. If not, remove the test equipment (except dummy load and wattmeter, if connected) before proceeding.

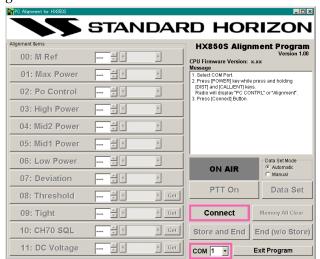
Correct alignment requires that the ambient temperature be the same as that of the transceiver and test equipment, and that this temperature be held constant between 20 and 30 °C (68 ~ 86 °F). When the transceiver is brought into the shop from hot or cold air it should be allowed some time for thermal equalization with the environment before alignment. If possible, alignments should be made with oscillator shields and circuit boards firmly affixed in place. Also, the test equipment must be thoroughly warmed up before beginning.

*Note:* Signal levels in dB referred to in this procedure are based on  $0 \text{ dB}\mu = 0.5 \mu\text{V}$  (closed circuit).

### Alignment

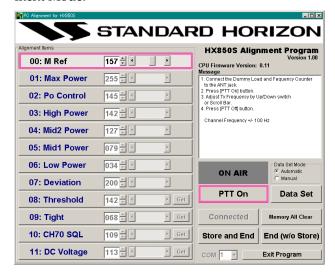
### Before Alignment

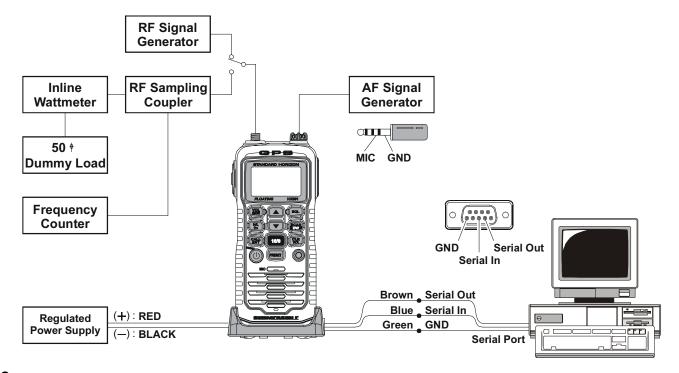
- ☐ Install the HX851 Alignment Program to your computer.
- ☐ Set up the test equipment as shown below, and set the DC Power Supply voltage to 8.0 V.
- ☐ Execute the HX851 Alignment Program.
- ☐ Select the COM port number which is connected to the HX851 Alignment Jig.
- Press and hold in the [DISTRESS] key and [CALL(ENT)MENU] key while turning the transceiver on to enter the Alignment Mode.
- Click the left mouse button on [-ler 1.00- the [Connect] button of the HX851 Alignment Program.



#### 00: PLL Reference Frequency

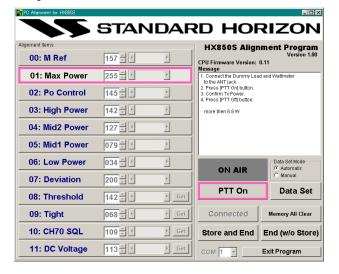
- ☐ Click the left mouse button on the [**00: M Ref**] button. The transceiver now is in the PLL Reference Frequency Alignment Mode.
- ☐ Click the left mouse button on the [**PTT On**] button.
- ☐ Click the [▲] / [▼] button (or Move the Slide Bar), if necessary, until the frequency Counter displays transmit frequency ±100 Hz.
- ☐ Click the left mouse button on the [PTT Off] button, then click the left mouse button on the [00: M Ref] button to exit the PLL Reference Frequency Alignment Mode.





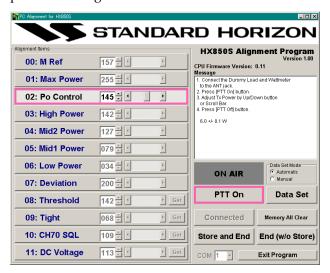
#### 01: Transmitter Maximum Output Power

- ☐ Click the left mouse button on the [01: Max Power] button. The transceiver now is in the Transmitter Maximum Output Power Confirmation Mode.
- ☐ Click the left mouse button on the [PTT On] button.
- Confirm that the Wattmeter displays more than 6.8 W.
- ☐ Click the left mouse button on the [PTT Off] button, then click the left mouse button on the [01: Max Power] button to exit the Transmitter Maximum Output Power Confirmation Mode.



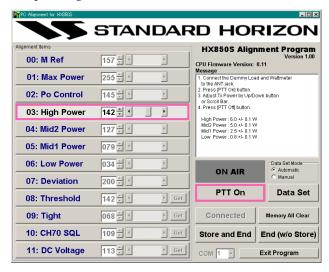
#### 02: Transmitter Power Output

- ☐ Click the left mouse button on the [02: Po Control] button. The transceiver now is in the Transmitter Maximum Output Power Alignment Mode.
- ☐ Click the left mouse button on the [PTT On] button.
- □ Click the [▲] / [▼] button (or Move the Slide Bar), if necessary, until the Wattmeter displays 6.0 W ±0.1 W.
- ☐ Click the left mouse button on the [PTT Off] button, then click the left mouse button on the [02: Po Control] button to exit the Transmitter Maximum Output Power Alignment.



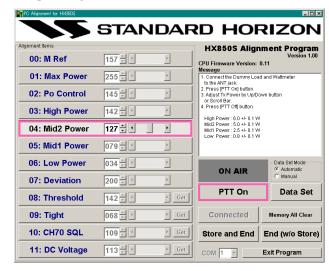
#### 03: Transmitter Power Output (High)

- ☐ Click the left mouse button on the [03: High Power] button. The transceiver now is in the Transmitter High Power Output Alignment Mode.
- ☐ Click the left mouse button on the [PTT On] button.
- ☐ Click the [▲] / [▼] button (or Move the Slide Bar), if necessary, until the Wattmeter displays 6.0 W ±0.1 W.
- ☐ Click the left mouse button on the [PTT Off] button, then click the left mouse button on the [03: High Power] button to exit the the Transmitter High Power Output Alignment Mode.



#### 04: Transmitter Power Output (Mid2)

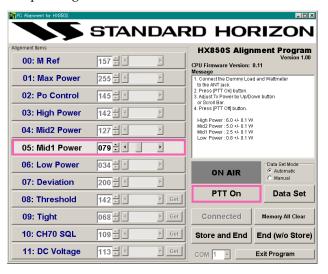
- ☐ Click the left mouse button on the [04: Mid2 Power] button. The transceiver now is in the Transmitter Mid2 Power Output Alignment Mode.
- ☐ Click the left mouse button on the [**PTT On**] button.
- ☐ Click the [▲] / [▼] button (or Move the Slide Bar), if necessary, until the Wattmeter displays 5.0 W ±0.1 W.
- Click the left mouse button on the [PTT Off] button, then click the left mouse button on the [04: Mid2 Power] button to exit the the Transmitter Mid2 Power Output Alignment Mode.



### Alignment

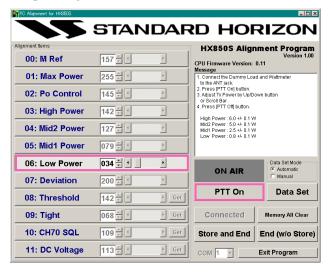
#### 05: Transmitter Power Output (Mid1)

- ☐ Click the left mouse button on the [**05**: **Mid1 Power**] button. The transceiver now is in the Transmitter Mid1 Power Output Alignment Mode.
- ☐ Click the left mouse button on the [**PTT On**] button.
- ☐ Click the [▲] / [▼] button (or Move the Slide Bar), if necessary, until the Wattmeter displays 2.5 W ±0.1 W.
- ☐ Click the left mouse button on the [PTT Off] button, then click the left mouse button on the [05: Mid1 Power] button to exit the the Transmitter Mid1 Power Output Alignment Mode.



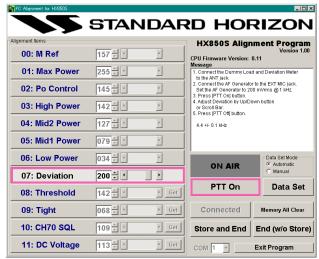
#### 06: Transmitter Power Output (Low)

- ☐ Click the left mouse button on the [**06**: **Low Power**] button. The transceiver now is in the Transmitter Low Power Output Alignment Mode.
- ☐ Click the left mouse button on the [PTT On] button.
- ☐ Click the [▲] / [▼] button (or Move the Slide Bar), if necessary, until the Wattmeter displays 0.8 W ±0.1 W.
- ☐ Click the left mouse button on the [PTT Off] button, then click the left mouse button on the [06: Low Power] button to exit the the Transmitter Low Power Output Alignment Mode.



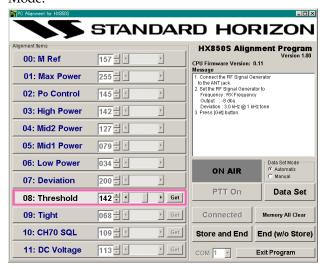
#### 07: Transmitter Modulation

- ☐ Set the AF Generator output to 200 mV rms @ 1 kHz tone.
- ☐ Click the left mouse button on the [07: Deviation] button. The transceiver now is in the Transmitter Modulation Alignment Mode.
- ☐ Click the left mouse button on the [PTT On] button.
- ☐ Click the [▲] / [▼] button (or Move the Slide Bar), if necessary, until the deviation to 4.4 kHz (±0.1 kHz).
- ☐ Click the left mouse button on the [PTT Off] button, then click the left mouse button on the [07: Deviation] button to exit the the Transmitter Modulation Alignment Mode.



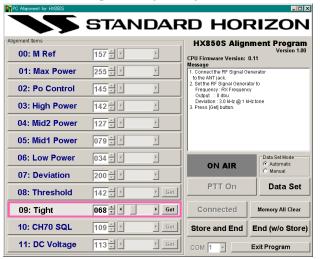
#### 08: Squelch Threshold Adjustment

- □ Set the RF signal generator output to channel frequency, at a level of –8 dBμ with ±3.0 kHz deviation with a 1 kHz audio tone.
- ☐ Click the left mouse button on the [08: Threshold] button. The transceiver now is in the Squelch Threshold Alignment Mode.
- ☐ Press the [**Get**] key to read the Squelch Threshold data.
- ☐ Click the left mouse button on the [08: Threshold] button to exit the the Squelch Threshold Alignment Mode.



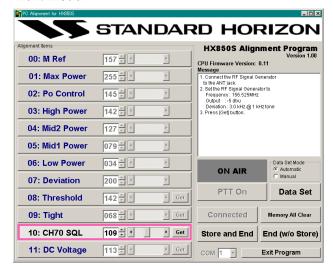
#### 09: Squelch Tight Adjustment

- $\square$  Set the RF signal generator output to channel frequency, at a level of 0 dB $\mu$  with ±3.0 kHz deviation with a 1 kHz audio tone.
- ☐ Click the left mouse button on the [09: Tight] button. The transceiver now is in the Squelch Tight Alignment Mode.
- ☐ Press the [**Get**] key to read the Squelch Tight data.
- ☐ Click the left mouse button on the [**08**: **Tight**] button to exit the the Squelch Tight Alignment Mode.



#### 10: CH70 Squelch Threshold Adjustment

- $\square$  Set the RF signal generator output to 156.525 MHz, at a level of –5 dB $\mu$  with ±3.0 kHz deviation with a 1 kHz audio tone.
- ☐ Click the left mouse button on the [10: CH70 SQL] button. The transceiver now is in the CH70 Squelch Threshold Alignment Mode.
- ☐ Press the [**Get**] key to read the Squelch Tight data.
- ☐ Click the left mouse button on the [10: CH70 SQL] button to exit the the CH70 Squelch Threshold Alignment Mode.



#### 11: DC Voltmeter

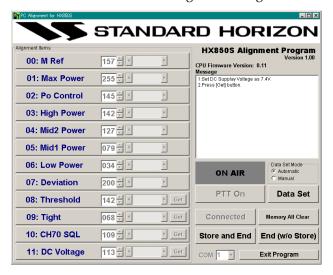
- ☐ Reduce the DC power supply voltage to 7.4 V.
- ☐ Click the left mouse button on the [11: DC Voltage] button. The transceiver now is in the DC Voltmeter Alignment Mode.
- ☐ Press the [**Get**] key to read the Squelch Tight data.
- ☐ Click the left mouse button on the [10: CH70 SQL] button to exit the DC Voltmeter Alignment Mode.



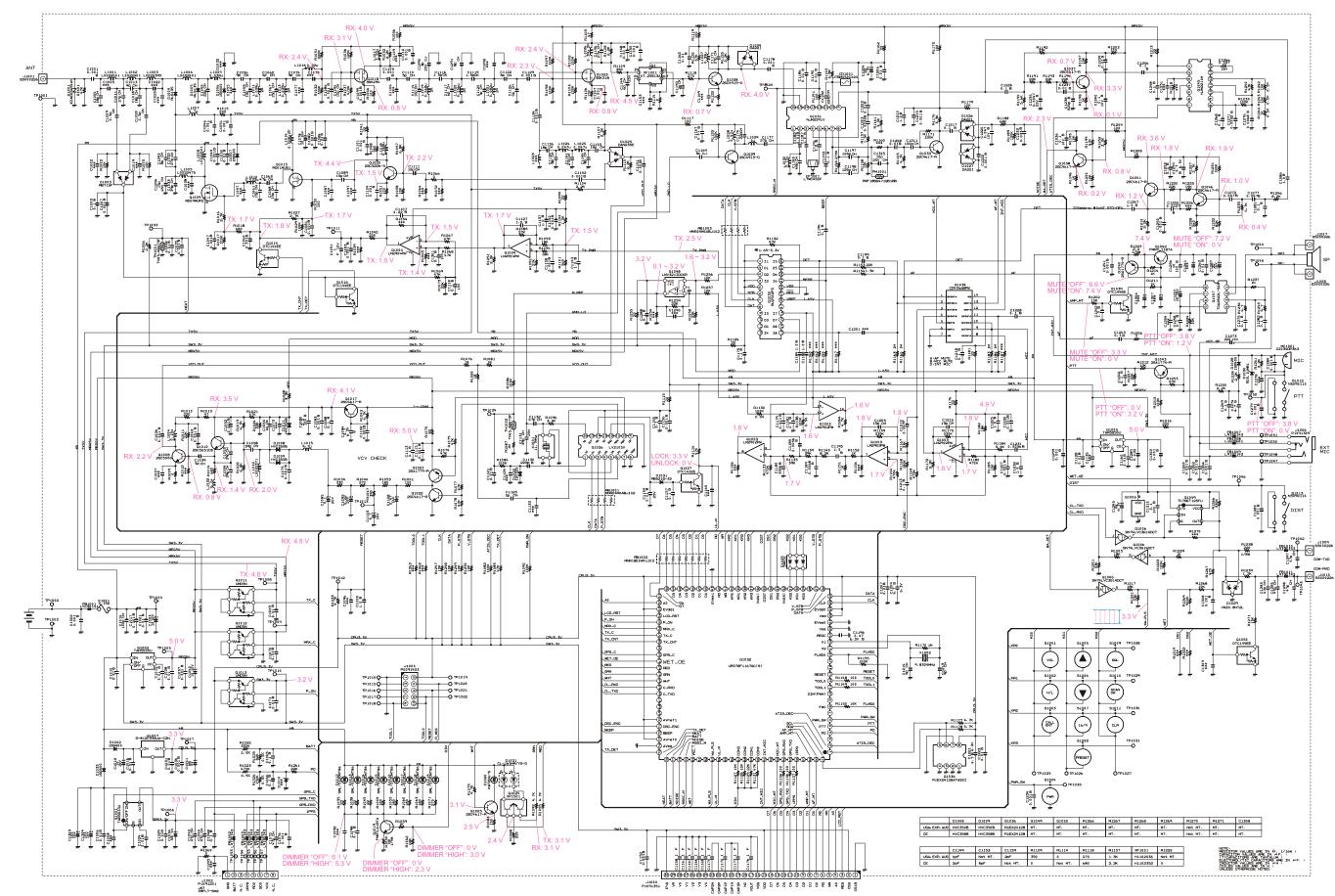
### Alignment

### Exit from the Alignment Mode

- ☐ Click the left mouse button on the [Store and End] button to save the new setting(s) and turn off the transceiver.
- ☐ Click the left mouse button on the [**Exit Program**] button to close the HX851 Alignment Program.

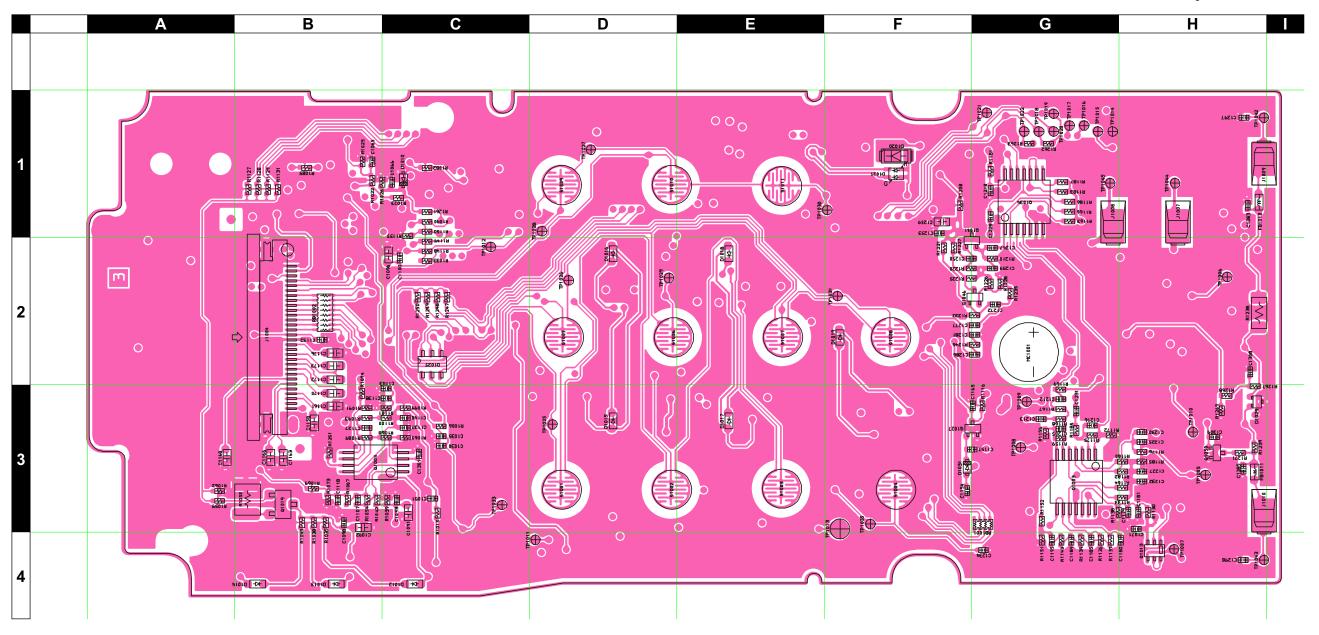


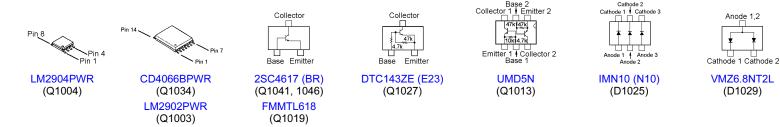
### Circuit Diagram



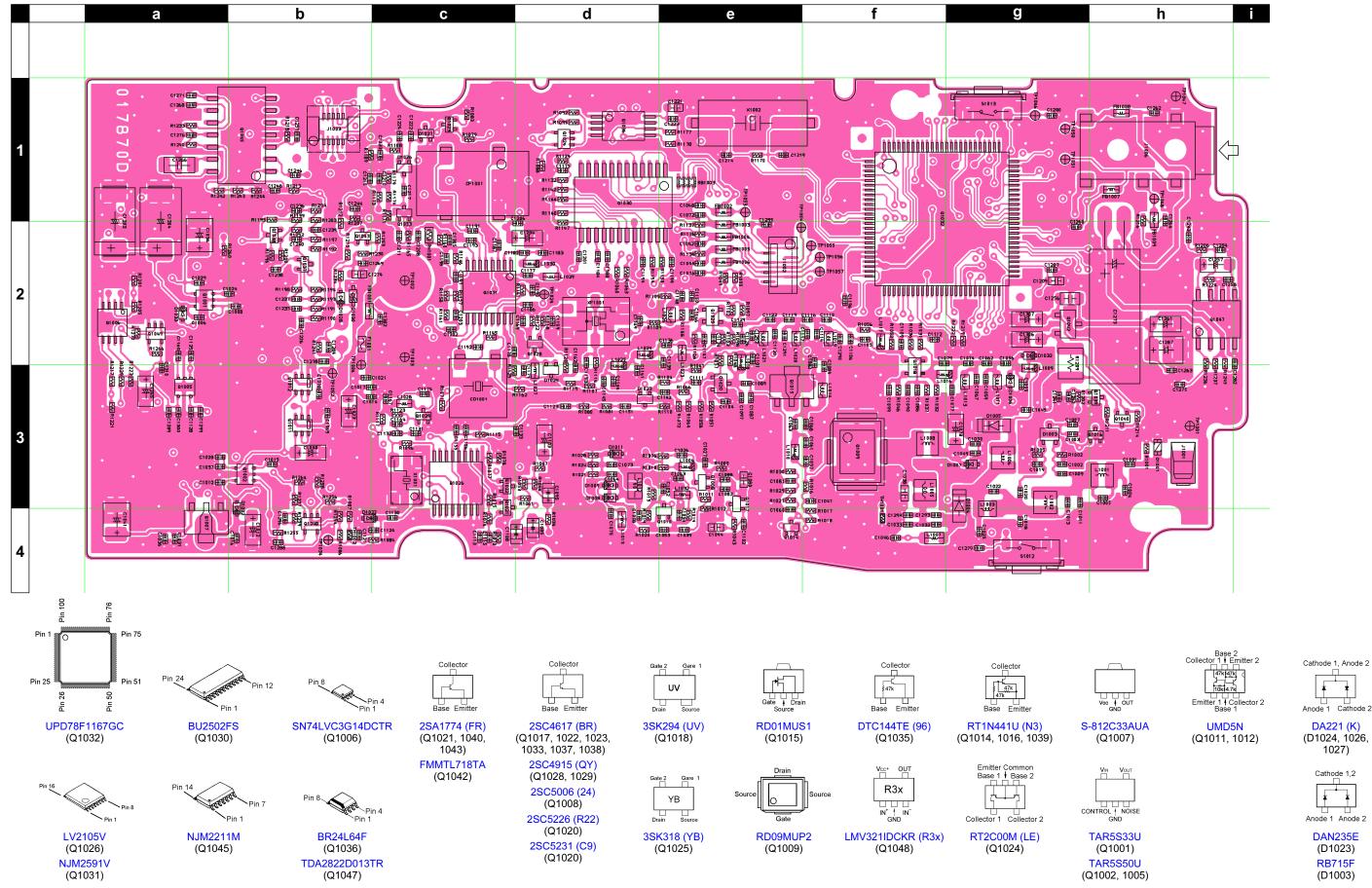
Note

### Parts Layout (Side A)





#### Parts Layout (Side B)



REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAYADR
	PCB with Components					CB4300002	UAS			
						CB4300003	EXPORT			
						CB4300004 CB4300006	AUSTRALIA EUROPE			
						CB4300007	UK			
	Printed Circuit Board	Τ				FR017870D		1-		
C 1001	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	h3
C 1003	CHIPCAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	g3
C 1004	CHIPCAP.	18pF	50V	CH	GRM1552C1H180JZ01D	K22178218		1-	В	h3
C 1006	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	a2
C 1007 C 1009	CHIP CAP.	0.001uF 0.5pF	50V 50V	B CK	GRM155B11H102KA01D UMK105CK0R5CV-F	K22178809 K22178247		1- 1-	B B	g3
C 1009	CHIP CAP.	0.3pr 0.01uF	25V	B	GRM155B11E103KA01D	K22178247		1-	В	g3 a3
C 1011	CHIP CAP.	27pF	50V	CH	GRM1552C1H270JZ01D	K22178222		i-	В	g3
C 1012	CHIP TA.CAP.	10uF	16V		TEESVA1C106M8R	K78120077		1-	В	b4
C 1013	CHIP CAP.	4pF	25V	CH	TMK105CH040C-F	K22148208		1-	В	g3
C 1014	CHIPCAP.	100pF	25V	CH	TMK105CH101J-F	K22148238		1-	В	b3
C 1015	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	b3
C 1016	CHIPCAP.	0.01uF 0.001uF	25V 50V	B B	GRM155B11E103KA01D GRM155B11H102KA01D	K22148834 K22178809		1- 1-	B B	b4 b3
C 1017	CHIP CAP.	18pF	50V	CH	GRM1552C1H180JZ01D	K22178009		1-	В	g4
C 1020	CHIPCAP.	0.5pF	50V	CK	UMK105CK0R5CV-F	K22178247		1-	В	g3
C 1021	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	b3
C 1023	CHIP TA.CAP.	10uF	16V		TEESVA1C106M8R	K78120077		1-	В	b3
C 1024	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	a2
C 1026	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	e3
C 1028 C 1029	CHIPCAP.	0.01uF 0.01uF	25V 25V	B B	GRM155B11E103KA01D GRM155B11E103KA01D	K22148834 K22148834		1- 1-	B B	a3 a2
C 1029	CHIP CAP.	0.01uF	25V 25V	В	GRM155B11E103KA01D	K22148834		1-	Ä	C3
C 1031	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		i-	В	a4
C 1032	CHIPCAP.	27pF	50V	CH	GRM1552C1H270JZ01D	K22178222		1-	В	f4
C 1033	CHIP CAP.	39pF	50V	CH	GRM1552C1H390JZ01D	K22178226		1-	В	f4
C 1034	CHIPTA.CAP.	68uF		_	TEESVB20G686M8R	K78060033		1-	В	a2
C 1035	CHIPCAP.	0.001uF	50V 50V	В	GRM155B11H102KA01D	K22178809		1- 1-	A	C3
C 1036 C 1037	CHIPCAP.	0.001uF 0.001uF	50V	B B	GRM155B11H102KA01D GRM155B11H102KA01D	K22178809 K22178809		1-	B B	a4 a3
C 1037	CHIP CAP.	5pF	25V	СH	TMK105CH050C-F	K22148209		1-	В	e4
C 1040	CHIP TA.CAP.	10uF	10V	".	TEESVA1A106M8R	K78100028		1-	B	b3
C 1041	CHIP TA.CAP.	68uF			TEESVB20G686M8R	K78060033		1-	В	a4
C 1042	CHIPCAP.	47pF	25V	CH	TMK105CH470J-F	K22148230		1-	В	e2
C 1043	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	e3
C 1044 C 1045	CHIPCAP.	47pF 22pF	25V 50V	CH CH	TMK105CH470J-F	K22148230 K22178266		1- 1-	B B	e2
C 1045	CHIP CAP.	0.001uF	50V	В	UMK105CH220JV-F GRM155B11H102KA01D	K22178809		1-	В	g3 f4
C 1047	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	B	f3
C 1048	CHIPCAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	e1
C 1049	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	g3
C 1050	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	g3
C 1051	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	A	C3
C 1052 C 1053	CHIP CAP.	0.001uF 39pF	50V 25V	B CH	GRM155B11H102KA01D TMK105CH390J-F	K22178809 K22148228		1- 1-	B B	e3 e4
C 1053	CHIP CAP.	39pF	25V	CH	TMK105CH390J-F	K22148228		1-	В	e4
C 1056	CHIP CAP.	9pF	50V	CH	GRM1552C1H9R0DZ01D	K22178211		1-	B	g2
C 1058	CHIP CAP.	39pF	25V	CH	TMK105CH390J-F	K22148228		1-	В	d4
C 1059	CHIPCAP.	12pF	25V	CH	TMK105CH120J-F	K22148216		1-	В	g3
C 1060	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	e3
C 1061 C 1062	CHIPCAP.	15pF 4pF	25V 25V	CH CH	TMK105CH150J-F   TMK105CH040C-F	K22148218 K22148208		1- 1-	B B	f3 g2
C 1062	CHIP CAP.	47pF	50V	CH	GRM1552C1H470JZ01D	K22178228		1-	В	e3
C 1064	CHIP CAP.	1pF	25V	CK	TMK105CK010C-F	K22148205		1-	В	d3
C 1065	CHIPCAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	A	B1
C 1066	CHIPCAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	A	C1
C 1067	CHIPCAP.	15pF	25V	CH	TMK105CH150J-F	K22148218		1-	B	g3
C 1068 C 1069	CHIPCAP.	15pF 0.01uF	25V 25V	CH	TMK105CH150J-F	K22148218		1- 1-	B B	f3
C 1069	CHIPCAP.	0.01uF 0.01uF	25V 25V	B B	GRM155B11E103KA01D GRM155B11E103KA01D	K22148834 K22148834		1- 1-	В	b3 b3
C 1070	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	Ā	H3
C 1072	CHIP CAP.	47pF	25V	CH	TMK105CH470J-F	K22148230		1-	В	e1
C 1074	CHIP CAP.	9pF	50V	CH	GRM1552C1H9R0DZ01D	K22178211		1-	В	g2
C 1075	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	d4
C 1076	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	B B	e2
C 1078 C 1080	CHIP TA.CAP.	10uF 2.2uF	16V 10V	В	TEESVA1C106M8R GRM188B31A225KE18D	K78120077 K22104805		1- 1-	B	g3 e3
0 1000	John OAL.	L.LUI	100	٦ ا	CIVINI 10000 IVESTIVE 100	1122104000		17		00

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAYADR
C 1081	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	e3
C 1082	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	f2
C 1083	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	e3
C 1084	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	f3
C 1085	CHIP TA.CAP.	0.1uF	20V		TMCP1D104MTRF	K78130067		1-	В	d4
C 1086	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	f3
C 1088	CHIPCAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	e3
C 1089	CHIPCAP.	15pF	25V	CH	TMK105CH150J-F	K22148218		1-	В	e3
C 1090	CHIPCAP.	10pF	25V	CH	TMK105CH100D-F	K22148214		1-	В	f3
C 1091	CHIPCAP.	1uF	10V	F	GRM188F11A105ZA01D	K22105001		1-	Α	C3
C 1093	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	Α	C3
C 1094	CHIPCAP.	4.7uF	6.3V	В	C1608JB0J475KT	K22084804		1-	В	e4
C 1095	CHIP TA.CAP.	0.22uF	20V		TMCP1D224MTRF	K78130069		1-	В	d3
C 1098	CHIPCAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	Α	B3
C 1099	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	f3
C 1100	CHIPCAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	Α	C2
C 1101	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	e2
C 1102	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	e4
C 1103	CHIP TA.CAP.	4.7uF	16V	_	TEESVA1C475M8R	K78120031		1-	В	d3
C 1104	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	e3
C 1105	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	f2
C 1107	CHIPCAP.	0.22uF	10V	В	GRM155B31A224KE18D	K22108808		1-	A	B3
C 1108	CHIP TA.CAP.	0.47uF	16V	۵.,	TEESVSP1C474M8R	K78120035		1-	В	c4
C 1110	CHIPCAP.	5pF	25V	CH	TMK105CH050C-F	K22148209		1-	В	f2
C 1111	CHIP CAP.	10pF	25V	CH	TMK105CH100D-F	K22148214		1-	В	e3
C 1112	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	f2
C 1113	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	c4
C 1114	CHIPCAP.	10pF	25V	CH	TMK105CH100D-F	K22148214		1-	В	f2
C 1115	CHIP CAP.	0.001uF	50V	B	GRM155B11H102KA01D	K22178809		1-	В	c4
C 1116		1.5pF	50V	CK	GRM1554C1H1R5CZ01D	K22178203		1-	В	f2
C 1117	CHIP CAP.	6pF	25V 10V	CH	TMK105CH060D-F	K22148210		1-	В	f2
C 1118	CHIPCAP.	0.1uF 1.5pF	50V	B CK	GRM155B11A104KA01D	K22108802 K22178203		1-   1-	A B	B3 e2
C 1119	CHIP CAP.	7pF	25V	CH	GRM1554C1H1R5CZ01D TMK105CH070D-F	K22176203		1-	В	e2 e2
C 1120	CHIP CAP.	0.01uF	25V 25V	В	GRM155B11E103KA01D	K22148211		1-	В	b4
C 1121	CHIP CAP.	5pF	25V	СH	TMK105CH050C-F	K22148209		1-	В	e2
C 1122	CHIP CAP.	5pF	25V	CH CH	TMK105CH050C-F	K22148209		1-	В	d3
C 1123	CHIP CAP.	4pF	25V	CH CH	TMK105CH040C-F	K22148208		1-	В	e2
C 1127	CHIPCAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	Ā	B3
C 1128	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	a3
C 1129	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		i -	В	e2
C 1130	CHIPCAP.	220pF	50V	В	UMK105B221KW-F	K22178821		i -	В	c4
C 1131	CHIPCAP.	39pF	25V	CH	TMK105CH390J-F	K22148228		1-	В	c3
C 1132	CHIPCAP.	47pF	50V	CH	GRM1552C1H470JZ01D	K22178228		1-	В	c3
C 1134	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	e2
C 1136	CHIP CAP.	18pF	50V	CH	GRM1552C1H180JZ01D	K22178218		1-	В	e2
C 1137	CHIP CAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	Α	C3
C 1138	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	Α	C3
C 1139	CHIP CAP.	8pF	50V	CH	GRM1552C1H8R0DZ01D	K22178210		1-	В	e2
C 1140	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	Α	C3
C 1141	CHIPCAP.	27pF	50V	CH	GRM1552C1H270JZ01D	K22178222		1-	В	d3
C 1142	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	e3
C 1143	CHIP CAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	Α	C3
C 1144	CHIP CAP.	8pF	50V	CH	GRM1552C1H8R0DZ01D	K22178210		1-	В	d3
C 1145	CHIP CAP.	18pF	50V	CH	GRM1552C1H180JZ01D	K22178218		1-	В	d3
C 1146	CHIPCAP.	27pF	50V	CH	GRM1552C1H270JZ01D	K22178222		1-	В	e2
C 1147	CHIP CAP.	0.001uF	50V	B	GRM155B11H102KA01D	K22178809		1-	В	e2
C 1148	CHIP CAP.	0.01uF	25V	B	GRM155B11E103KA01D	K22148834	M// 05 : 455:	1-	В	e2
C 1149	CHIPCAP.	2pF	50V	CK	GRM1554C1H2R0CZ01D	K22178204	W/CE LABEL	1-	В	d2
C 1149	CHIP CAP.	6pF	25V	CH	TMK105CH060D-F	K22148210	W/O CE LABEL	1-	В	d2
C 1150	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	e2
C 1151	CHIPCAP.	0.001uF	50V 50V	В	GRM155B11H102KA01D	K22178809		1-	В	d3
C 1152 C 1153	CHIPCAP.	0.001uF 8pF	50V 50V	B CH	GRM155B11H102KA01D	K22178809	W/CE LABEL	1-   1-	A B	B2 d2
C 1153	CHIP CAP.	8pr   0.01uF	25V	B	GRM1552C1H8R0DZ01D	K22178210 K22148834	VV/ CE LADEL	1-	A	62 F3
C 1154	CHIP CAP.	0.01uF 0.1uF	10V	B	GRM155B11E103KA01D GRM155B11A104KA01D	K22148834 K22108802		1-	B	
C 1155	CHIP CAP.	0.1uF 0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	c3 c3
C 1156	CHIP CAP.	0.00 TuF	10V	В	GRM155B11A104KA01D	K22178809 K22108802		1-	A	F3
C 1157	CHIP CAP.	1uF	10V	F	GRM188F11A105ZA01D	K22105002		1-	A	B3
C 1158	CHIP CAP.	2pF	50V	CK	GRM1554C1H2R0CZ01D	K22103001	W/O CE LABEL	1-	В	d2
C 1160	CHIP CAP.	0.01uF	25V	B	GRM155B11E103KA01D	K22176204 K22148834	11/O OL LADLL	1-	В	a2
C 1161	CHIPCAP.	1uF	10V	F	GRM188F11A105ZA01D	K22105001		1-	A	B3
C 1162	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	d3
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REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAYADR
C 1163	CHIP CAP.	1uF	10V	F	GRM188F11A105ZA01D	K22105001		1-	Α	B3
C 1164	CHIP CAP.	3pF	25V	CJ	TMK105CJ030C-F	K22148207		1-	В	c3
C 1166	CHIP CAP.	1uF	10V	F	GRM188F11A105ZA01D	K22105001		1-	Α	B3
C 1167	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	c3
C 1168	CHIPCAP.	1uF	10V	F	GRM188F11A105ZA01D	K22105001		1-	Α	A3
C 1170	CHIPCAP.	1uF	10V	F	GRM188F11A105ZA01D	K22105001		1-	Α	B3
C 1171	CHIP CAP.	27pF	50V	СH	GRM1552C1H270JZ01D	K22178222		1-	В	d3
C 1172	CHIP CAP.	1uF	10V	F	GRM188F11A105ZA01D	K22105001		1-	A	B2
C 1173	CHIP CAP.	1uF	10V	F	GRM188F11A105ZA01D	K22105001		1-	A	B2
C 1174 C 1175	CHIPCAP.	22pF	50V	СН	UMK105CH220JV-F	K22178266		1-	B B	c3
C 1175	CHIPCAP.	0.1uF 1uF	10V 10V	B F	GRM155B11A104KA01D	K22108802 K22105001		1-   1-	A	d1 B2
C 1176	CHIP CAP.	27pF	50V	CH	GRM188F11A105ZA01D GRM1552C1H270JZ01D	K22103001 K22178222		1-	В	d2
C 1177	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178222 K22178809		1-	В	c2
C 1179	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	A	H3
C 1180	CHIP CAP.	330pF	50V	В	UMK105B331KW-F	K22178823		1-	A	G4
C 1181	CHIP CAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	A	H3
C 1182	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	d2
C 1183	CHIPCAP.	68pF	25V	CH	TMK105CH680J-F	K22148234		1-	В	d2
C 1184	CHIPCAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	В	d2
C 1185	CHIP CAP.	0.0056uF	25V	В	TMK105B562KW-F	K22148832		1-	Α	G4
C 1186	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	d2
C 1187	CHIP CAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	В	c2
C 1188	CHIP CAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	В	d2
C 1189	CHIPCAP.	0.0068uF	25V	В	TMK105B682KW-F	K22148833		1-	Α	G4
C 1190	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	d2
C 1191	CHIPCAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	В	c2
C 1192	CHIP CAP.	220pF	25V	CH	TMK105CH221JV-F	K22148246		1-	В	c2
C 1193	CHIPCAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	c2
C 1194	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	d2
C 1195	CHIP CAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	A	G4
C 1196	CHIP CAP.	0.47uF	6.3V	В	GRM155B30J474KE18D	K22088802		1-	В	f2
C 1197	CHIPCAP.	120pF	50V	CH	UMK105CH121JV-F	K22178284		1-	В	c2
C 1198	CHIPCAP.	120pF	50V	CH	UMK105CH121JV-F	K22178284		1-	В	c2
C 1199 C 1202	CHIPCAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1- 1-	B B	e2 c2
C 1202	CHIPCAP.	0.01uF 0.0033uF	25V 50V	B B	GRM155B11E103KA01D UMK105B332KW-F	K22148834 K22178835		1-	В	c2
C 1203	CHIP TA.CAP.	22uF	6.3V		TEESVA0J226M8R	K78080047		1-	В	d2
C 1204	CHIP CAP.	15pF	25V	СН	TMK105CH150J-F	K22148218		1-	A	G3
C 1206	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	d2
C 1207	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	g2
C 1208	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	c2
C 1209	CHIP CAP.	4.7uF	6.3V	В	C1608JB0J475KT	K22084804		1-	В	g2
C 1210	CHIPCAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	В	c1
C 1211	CHIP CAP.	100pF	25V	CH	TMK105CH101J-F	K22148238		1-	В	c2
C 1212	CHIP CAP.	0.047uF	16V	F	GRM155F11C473ZA01D	K22129004		1-	Α	G3
C 1213	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	Α	G3
C 1214	CHIP CAP.	9pF	50V	CH	GRM1552C1H9R0DZ01D	K22178211		1-	В	e1
C 1215	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	b1
C 1216	CHIP CAP.	15pF	25V	CH	TMK105CH150J-F	K22148218		1-	A	G3
C 1217	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	B	c1
C 1218	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	A	G1
C 1219	CHIPCAP.	9pF	50V	CH	GRM1552C1H9R0DZ01D	K22178211		1-	В	e1
C 1221	CHIPCAP.	4.7uF	6.3V	В	C1608JB0J475KT	K22084804		1-	В	e1
C 1222 C 1223	CHIPCAP.	0.001uF 0.01uF	50V 25V	B	GRM155B11H102KA01D GRM155B11E103KA01D	K22178809 K22148834		1-   1-	B B	c1 e1
C 1223	CHIPCAP.	0.01uF 0.047uF	10V	B B	GRM155B11A473KA01D	K22148834 K22108801		1- 1-	B	c1
C 1224	CHIP CAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	A	H3
C 1225	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	b2
C 1227	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	A	H3
C 1228	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	A	G1
C 1230	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	A	H3
C 1231	CHIP CAP.	0.0056uF	25V	В	TMK105B562KW-F	K22148832		1-	A	G3
C 1232	CHIP CAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	Α	H3
C 1233	CHIP CAP.	0.033uF	10V	В	GRM155B11A333KA01D	K22108803		1-	В	c1
C 1234	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	Α	G4
C 1235	CHIP CAP.	0.0047uF	25V	В	TMK105B472KW-F	K22148831		1-	В	b2
C 1236	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	b1
C 1237	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	b2
C 1238	CHIP CAP.	820pF	50V	В	UMK105B821KW-F	K22178828		1-	В	b2
C 1239	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	b2
C 1240	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	b2
C 1241	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	g3

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAYADR
C 1242	CHIP CAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	В	g3
C 1243	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	h2
C 1244 C 1245	CHIPCAP. CHIPTA.CAP.	0.1uF 22uF	10V 6.3V	В	GRM155B11A104KA01D TEESVA0J226M8R	K22108802 K78080047		1- 1-	B B	b1 a3
C 1245	CHIP TA.CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-   1-	B	b1
C 1247	CHIP CAP.	1uF	6.3V	В	GRM155B30J105KE18D	K22088803		1-	Ā	G2
C 1248	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	b1
C 1250	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	Α	F2
C 1253	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	Α	F1
C 1255 C 1256	CHIPCAP.	0.0027uF 10uF	50V 10V	B B	UMK105B272KW-F GRM21BB31A106KE18L	K22178834 K22100808		1- 1-	A B	G2
C 1250	CHIP TA.CAP.	10uF	16V		TEESVA1C106M8R	K78120077		1-	В	g2 h2
C 1258	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	h2
C 1259	CHIP CAP.	4.7uF	6.3V	В	C1608JB0J475KT	K22084804		1-	A	F1
C 1260	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	g2
C 1262	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	h1
C 1263	CHIP CAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	h3
C 1264 C 1266	CHIPCAP.	0.001uF 0.027uF	50V 16V	В	GRM155B11H102KA01D ECHU1C273JX5	K22178809 K57120041		1- 1-	B B	h1 a1
C 1268	CHIP CAP.	0.027uF 0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	a1
C 1269	CHIPCAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	b2
C 1271	CHIP CAP.	0.0022uF	25V	В	TMK105B222K-F	K22148824		1-	В	a1
C 1272	CHIP CAP.	0.047uF	10V	В	GRM155B11A473KA01D	K22108801		1-	Α	G2
C 1273	AL.ELECTRO.CAP.	220uF	10V	_	ESMG100ELL221ME11S	K40109027		1-	В	h1
C 1274	CHIP CAP.	4.7uF	6.3V	В	JMK107BJ475MA-T	K22084803		1-	В	b2
C 1275 C 1276	CHIPCAP.	0.1uF 0.0068uF	10V 25V	B B	GRM155B11A104KA01D TMK105B682KW-F	K22108802 K22148833		1- 1-	B B	h3
C 1276	CHIP CAP.	0.0000ur 0.047uF	10V	В	GRM155B11A473KA01D	K22146633 K22108801		1-   1-	A	a1 G2
C 1279	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	g4
C 1280	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	g1
C 1281	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	Α	Ğ2
C 1282	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	h2
C 1283	CHIP CAP.	47pF	50V	CH	GRM1552C1H470JZ01D	K22178228		1-	A	H1
C 1284 C 1285	CHIPCAP.	0.001uF 47pF	50V 50V	B CH	GRM155B11H102KA01D GRM1552C1H470JZ01D	K22178809 K22178228		1- 1-	B A	b2 H3
C 1286	CHIP CAP.	47pr   1uF	6.3V	В	GRM155B30J105KE18D	K22176226 K22088803		1-	A	G2
C 1287	CHIP TA.CAP.	22uF	16V		TEESVB21C226M8R	K78120028		1-	В	h2
C 1288	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	В	b4
C 1289	CHIPCAP.	0.01uF	25V	В	GRM155B11E103KA01D	K22148834		1-	В	a3
C 1290	CHIP CAP.	3pF	25V	CJ	TMK105CJ030C-F	K22148207		1-	В	f2
C 1291	CHIPCAP.	8pF 8pF	50V 50V	CH CH	GRM1552C1H8R0DZ01D	K22178210		1- 1-	В	e2
C 1293	CHIPCAP.	орг 15pF	25V	CH	GRM1552C1H8R0DZ01D TMK105CH150J-F	K22178210 K22148218		1-   1-	B B	f4 f4
C 1297	CHIPCAP.	47pF	50V	CH CH	GRM1552C1H470JZ01D	K22178228		1-	A	H1
C 1298	CHIP CAP.	47pF	50V	CH	GRM1552C1H470JZ01D	K22178228		1-	Α	H4
C 1299	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	a3
C 1300	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809		1-	В	a3
C 1301	CHIP CAP.	0.1uF	10V	В	GRM155B11A104KA01D	K22108802		1-	A	C3
C 1302 C 1303	CHIPCAP. CHIPTA.CAP.	0.001uF 100uF	50V 16V	В	GRM155B11H102KA01D TEESVD1C107M12R	K22178809 K78120059		1- 1-	B B	c2
C 1303	CHIP TA.CAP.	100uF	16V		TEESVD1C107M12R TEESVD1C107M12R	K78120059 K78120059		1-   1-	В	a1 a1
C 1305	CHIP CAP.	10pF	25V	СН	TMK105CH100D-F	K22148214		1-	В	c2
C 1308	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	AUSTRALIA	1-	A	H2
C 1308	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	EUROPE	1-	Α	H2
C 1308	CHIPCAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	EXPORT	1-	A	H2
C 1308	CHIP CAP.	0.001uF	50V	В	GRM155B11H102KA01D	K22178809	UK USA	1-   1-	A	H2
C 1308 C 1310	CHIPCAP.	0.001uF 0.1uF	50V 10V	B B	GRM155B11H102KA01D GRM155B11A104KA01D	K22178809 K22108802	USA	1- 1-	A B	H2 a3
CD1001	CERAMICDISC	J. 101	100		JTBM450CX24	H7901530		1-	В	c3
CF1001	CERAMICFILTER				LTWC450F	H3900563		1-	В	c1
D 1001	SURGE ABSORBER				EZAEG3A50AV	Q9000867		1-	В	h3
D 1002	DIODE				1SS400 TE61	G2070634		1-	В	b3
D 1003 D 1004	DIODE DIODE				RB715F T106	G2070752		1- 1-	B B	g3
D 1004	DIODE				RLS135 TE-11 RLS135 TE-11	G2070128 G2070128		1- 1-	B	g3 g3
D 1003	DIODE				1SS400 TE61	G2070128 G2070634		1-	В	g3
D 1007	DIODE				1SS400 TE61	G2070634		1-	В	g3
D 1008	DIODE				HVC358B TRF-E	G2070590	W/ CE LABEL	1-	В	d3
D 1008	DIODE				HVC350B-TRF-E	G2070596	W/O CE LABEL	1-	В	d3
D 1009	DIODE				HVC358B TRF-E	G2070590	W/ CE LABEL	1-	В	d3
D 1009	DIODE				HVC350B-TRF-E	G2070596	W/O CE LABEL	1-	В	d3
D 1011	DIODE LED				HVC306B TRU-E SML-512DWT86	G2070918 G2071116		1- 1-	B A	d3 C4
1012	LLD				SIVIL-S IZDVV I 00	92011110		1-	_^	U+

D1013   LED	REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAYADR
D1016   LED						SML-512DWT86	G2071116		1	Α	
D 1017									1		
D 1017									1	1	
D 1019   LED									l		
D 1010   LED		l I							l	1	
D1020   LED									1 .		
D 1022   LED									1	1	
D1022   DIODE									1 -		
D1024   D100E									1		
D1026   D1026   D00E   DA221 TL   G2070178									1		
D1026   DIOCE   DIOCE   DIAPATE   DIOCE   DA221 TL   G2070178   1-   B   c1   D1027   DIOCE   DA221 TL   G2070178   1-   B   c1   D1027   DIOCE   DA221 TL   G2070178   1-   B   c1   D1027   DIOCE   DA221 TL   G2070178   1-   B   c1   D1028   DIOCE   DA221 TL   G2070178   1-   B   c1   D1028   DIOCE   DA221 TL   G2070178   1-   B   c1   D1028   DIOCE   TSS400 TE61   G2070538   1-   A   H3   D1028   DIOCE   RDS.1MB1 TE51   G2070538   1-   A   H3   D1030   RDS.1MB1 TE51   G2070538   1-   B   D2   RDS.1MB1 TE51   G2070538   1-									1		
D1026   D00E									l		
D1027   DIODE   DA221 TL   G2070178									1		
D1029   D0CDE									1		
101029   DODE									l		
D1030   DOCDE									1 -		
D1031   DODE									1		
D1031   DIOCE		-							l		
DS1001   LCD		-							1		
F10101   CHIPFUSE   3.15A											az
FB1001   FERRITE BEADS   BLM18PG330SNID   L9190143   1-			3 15Δ					1		R	h2
FB1002   FERRITEBEADS   BLM18B0601SM1D   L9190143			J. 1JA								
FB1003   FERRITEBEADS   BLM18BB061SN1D   L9190143									1 .		
FB1004   FERRITEBEADS   BLM188D6015N1D   L9190143   1-   B   e2   FB1006   FERRITEBEADS   BLM188D6015N1D   L9190143   1-   B   e2   FB1007   FERRITEBEADS   BLM188D6015N1D   L9190143   1-   B   e2   FB1008   FERRITEBEADS   BLM188D6015N1D   L9190143   1-   B   h1   FB1019   FERRITEBEADS   BLM188D6015N1D   L9190143   1-   B   h1   FB1010   FERRITEBEADS   BLM188D6015N1D   L9190143   1-   B   h1   FB1010   FERRITEBEADS   BLM188D6015N1D   L9190143   1-   A   H1   FB1011   FERRITEBEADS   BLM188D6015N1D   L9190143   1-   A   H1   FB1010   SHIELDFINGER   3525 3100103   S5000226   1-   B   63   FB1010   CONNECTOR   AXK6F10545V1   P0091423   1-   B   b1   FB1010   SHIELDFINGER   3525 3100103   S5000226   1-   A   H1   FB1010   SHIELDFINGER   3525 3100103   S5000226   1-   A   H1   FB1010   SHIELDFINGER   3525 3100103   S5000226   1-   A   H1   FB1010   COIL   E2 0.255 19.6.571   L00022401   1-   B   h3   FB1010   COIL   E2 0.255 19.6.571   L00022401   1-   B   h3   FB1010   MRPC   0.0394H   HK1608 3941-T   L1690323   1-   B   h3   FB1010   MRPC   0.0394H   HK1608 3941-T   L1690323   1-   B   h3   FB1010   MRPC   0.0394H   SEC 0.0564H   SEC 0.057 9-B   FT   L169040   1-   B   63   FB1010   MRPC   0.0564H   2%   C1608CB-S0NG-RF   L1691044   1-   B   63   FB1010   MRPC   0.0564H   2%   C1608CB-S0NG-RF   L1691041   1-   B   63   FB1010   MRPC   0.0564H   2%   C1608CB-S0NG-RF   L1691041   1-   B   62   FB1010   MRPC   0.0564H   2%   C1608CB-S0NG-RF   L1691041   1-   B   62   FB1010   MRPC   0.0564H   2%   C1608CB-S0NG-RF   L1691041   1-   B   62   FB1010   MRPC   0.0564H   2%   C1608CB-S0NG-RF   L1691041   1-   B   62   FB1010   MRPC   0.0564H   2%									1		
FB1005   FERRITEBEADS   BLM18B001SM1D   L9190143   1- B e2									1		
FB1000   FERRITEBEADS   BLM18BD601SM1D   L9190143   1-									1		
FB1007   FERRITEBEADS   BLM18BD601SM1D   L1990143   1-									l		
FB1008   FERRITE BEADS   BLMISP GROSNID									1 -		
FB1000   FERRITE BEADS   BLM18BD601SN1D   L9190143		I -							1 -		
FB1010   FERRITE BEADS   BLM18BD601SN1D   L9190143									1 .		
FERDITE BEADS   BLM18BD601SN1D									1		
J 1001									1		
J 1002   CONNECTOR   AXK6F10545YJ   P1091201   1-											
J 1003   CONNECTOR									1		
J 1004   CONNECTOR									1		
J 1006   CONNECTOR									l		
J 1007   SHIELDFINGER   3825 3100103   S5000226   1-	J 1006	CONNECTOR				MJC-046-C1-3.5-T	P1091309		1-	В	h1
J 1009   SHIELDFINGER   3525 3100103   S5000226   1-		SHIELDFINGER				3525 3100103			1-	Α	H1
J 1009   SHIELDFINGER   3525 3100103   S5000226   1-	J 1008	SHIELDFINGER				3525 3100103	S5000226		1-	Α	G1
COIL   E2 0.25-1.9-6.5T-L   L0022401   1-	J 1009	SHIELDFINGER				3525 3100103			1-	Α	H1
L 1002   COIL	J 1010	SHIELDFINGER				3525 3100103	S5000226		1-	Α	H3
L 1003 COIL L 1004 MRFC	L 1001					E2 0.25-1.9-6.5T-L			1-	В	
L 1004 MRFC COIL L 1005 COIL L 1006 COIL L 1007 MRFC L 1008 COIL L 1008 COIL L 1009 MRFC L 1008 COIL L 1009 MRFC L 1008 MRFC L 1009 MRFC L 1009 MRFC L 1009 MRFC L 1001 MRFC L 1010 MRFC L 1010 MRFC L 1010 MRFC L 1011 MRFC L 1011 MRFC L 1011 MRFC L 1012 COIL L 1013 MRFC L 1013 MRFC L 1013 MRFC L 1014 MRFC L 1015 MRFC L 1016 MRFC L 1018 MRFC L 1018 MRFC L 1019 MRFC L 1019 MRFC L 1010 MRFC L	L 1002					E2 0.25-1.9-6.5T-L			1		g3
L 1005   COIL									l		
L 1006   COIL   COIL   L 1007   M.RFC   A.7uH   L 147uH   L 147u		M.RFC	0.15uH			HK1608 R15J-T	L1690938		1-		
L 1007   M.RFC									1		
L 1008   COIL   COIL   COID										_	
L 1009   M.RFC			4.7uH			-			1		
L 1010   M.RFC   0.033uH   2%   C1608CB-39NG-RF   L1691039   1-									1		
L 1011   M.RFC									1		
L 1012   COIL					001				1		
L 1013         M.RFC         0.039uH         2%         C1608CB-39NG-RF         L1691039         1-         B         g3           L 1014         M.RFC         0.068uH         2%         C1608CB-68NG-RF         L1691042         1-         B         f3           L 1015         M.RFC         4.7uH         LK1608 4R7K-T         L1690688         1-         B         d4           L 1016         M.RFC         0.22uH         HK1608 R22J-T         L1690940         1-         B         f3           L 1017         M.RFC         0.22uH         HK1608 R22J-T         L1690940         1-         B         f2           L 1018         M.RFC         0.068uH         HK1608 R22J-T         L1690940         1-         B         f2           L 1019         M.RFC         0.068uH         2%         C1608CB-68NG-RF         L1691042         1-         B         f2           L 1020         M.RFC         0.056uH         2%         C1608CB-58NG-RF         L1691041         1-         B         e2           L 1021         M.RFC         0.082uH         2%         C1608CB-82NG-RF         L1691041         1-         B         e2           L 1024         M.RFC         0.047uH			0.039uH		2%				1		
L 1014         M.RFC         0.068uH         2%         C1608CB-68NG-RF         L1691042         1-         B         f3           L 1015         M.RFC         4.7uH         LK1608 4R7K-T         L1690688         1-         B         d4           L 1016         M.RFC         0.22uH         HK1608 R22J-T         L1690940         1-         B         f3           L 1017         M.RFC         0.022uH         HK1608 R22J-T         L1690940         1-         B         f2           L 1018         M.RFC         0.068uH         HK1608 R22J-T         L1690940         1-         B         f2           L 1019         M.RFC         0.068uH         HK1608 68NJ-T         L1690526         1-         B         f2           L 1019         M.RFC         0.068uH         2%         C1608CB-68NG-RF         L1691042         1-         B         f2           L 1020         M.RFC         0.056uH         2%         C1608CB-56NG-RF         L1691041         1-         B         e2           L 1021         M.RFC         0.047uH         2%         C1608CB-82NG-RF         L1691044         1-         B         e2           L 1025         M.RFC         0.047uH         HK1			0.000-11		00/				1		
L 1015         M.RFC         4.7uH         LK1608 4R7K-T         L1690688         1-         B         d4           L 1016         M.RFC         0.22uH         HK1608 R22J-T         L1690940         1-         B         f3           L 1017         M.RFC         0.22uH         HK1608 R22J-T         L1690940         1-         B         f2           L 1018         M.RFC         0.068uH         HK1608 68NJ-T         L1690526         1-         B         e2           L 1019         M.RFC         0.068uH         2%         C1608CB-68NG-RF         L1691042         1-         B         f2           L 1020         M.RFC         0.056uH         2%         C1608CB-56NG-RF         L1691041         1-         B         e2           L 1021         M.RFC         0.082uH         2%         C1608CB-88NG-RF         L1691041         1-         B         e2           L 1024         M.RFC         0.047uH         2%         C1608CB-82NG-RF         L1691044         1-         B         e2           L 1025         M.RFC         0.047uH         HK1608 47NJ-T         L1690524         1-         B         d2           L 1026         M.RFC         0.39uH         2% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td>									1		
L 1016       M.RFC       0.22uH       HK1608 R22J-T       L1690940       1- B f3         L 1017       M.RFC       0.22uH       HK1608 R22J-T       L1690940       1- B f2         L 1018       M.RFC       0.068uH       HK1608 68NJ-T       L1690526       1- B e2         L 1019       M.RFC       0.068uH       2% C1608CB-68NG-RF       L1691042       1- B f2         L 1020       M.RFC       0.056uH       2% C1608CB-56NG-RF       L1691041       1- B e2         L 1021       M.RFC       0.082uH       2% C1608CB-82NG-RF       L1691044       1- B e2         L 1024       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1- B d2         L 1025       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1- B d2         L 1026       M.RFC       0.39uH       2% C1608CB-R39G-RF       L1691107       1- B e2         L 1027       M.RFC       0.39uH       2% C1608CB-R39G-RF       L1691107       1- B e2         L 1028       M.RFC       0.47uH       LK1608 R39K-T       L1690413       1- B e3         L 1029       M.RFC       1uH       LK1608 R18CK-T       L1690687       1- B e3         L 1030       M.RFC       1uH       LK16					∠%				1		
L 1017         M.RFC         0.22uH         HK1608 R22J-T         L1690940         1- B f2           L 1018         M.RFC         0.068uH         2% C1608CB-68NG-RF         L1690526         1- B e2           L 1019         M.RFC         0.068uH         2% C1608CB-68NG-RF         L1691042         1- B f2           L 1020         M.RFC         0.056uH         2% C1608CB-56NG-RF         L1691041         1- B e2           L 1021         M.RFC         0.082uH         2% C1608CB-82NG-RF         L1691044         1- B e2           L 1024         M.RFC         0.047uH         HK1608 47NJ-T         L1690524         1- B d2           L 1025         M.RFC         0.047uH         HK1608 47NJ-T         L1690524         1- B d2           L 1026         M.RFC         0.39uH         2% C1608CB-R39G-RF         L1691107         1- B e2           L 1027         M.RFC         0.39uH         2% C1608CB-R39G-RF         L1691107         1- B e2           L 1028         M.RFC         0.39uH         2% C1608CB-R39G-RF         L1690413         1- B e3           L 1029         M.RFC         0.47uH         LK1608 R39K-T         L1690414         1- B c3           L 1030         M.RFC         1uH         LK1608 R1ROK-T									1		
L 1018       M.RFC       0.068uH       2       HK1608 68NJ-T       L1690526       1-       B       e2         L 1019       M.RFC       0.068uH       2%       C1608CB-68NG-RF       L1691042       1-       B       f2         L 1020       M.RFC       0.056uH       2%       C1608CB-56NG-RF       L1691041       1-       B       e2         L 1021       M.RFC       0.082uH       2%       C1608CB-82NG-RF       L1691044       1-       B       e2         L 1024       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1-       B       d2         L 1025       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1-       B       d2         L 1026       M.RFC       0.39uH       2%       C1608CB-R39G-RF       L1691107       1-       B       e2         L 1027       M.RFC       0.39uH       2%       C1608CB-R39G-RF       L1691107       1-       B       e2         L 1028       M.RFC       0.47uH       LK1608 R39K-T       L1690413       1-       B       d3         L 1029       M.RFC       1uH       LK1608 R47K-T       L1690687       1-       B       d2									1		
L 1019       M.RFC       0.068uH       2%       C1608CB-68NG-RF       L1691042       1-       B       f2         L 1020       M.RFC       0.056uH       2%       C1608CB-56NG-RF       L1691041       1-       B       e2         L 1021       M.RFC       0.082uH       2%       C1608CB-82NG-RF       L1691044       1-       B       e2         L 1024       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1-       B       d2         L 1025       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1-       B       d2         L 1026       M.RFC       0.39uH       2%       C1608CB-R39G-RF       L1691107       1-       B       e2         L 1027       M.RFC       0.39uH       2%       C1608CB-R39G-RF       L1691107       1-       B       e2         L 1028       M.RFC       0.39uH       2%       LK1608 R39K-T       L1690413       1-       B       e3         L 1029       M.RFC       1uH       LK1608 R47K-T       L1690687       1-       B       c3         L 1030       M.RFC       0.15uH       HK1608 R15J-T       L1690688       1-       B       d2									1		
L 1020       M.RFC       0.056uH       2%       C1608CB-56NG-RF       L1691041       1-       B       e2         L 1021       M.RFC       0.082uH       2%       C1608CB-82NG-RF       L1691044       1-       B       e2         L 1024       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1-       B       d2         L 1025       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1-       B       d2         L 1026       M.RFC       0.39uH       2%       C1608CB-R39G-RF       L1691107       1-       B       e2         L 1027       M.RFC       0.39uH       2%       C1608CB-R39G-RF       L1691107       1-       B       e2         L 1028       M.RFC       0.47uH       2%       C1608CB-R39G-RF       L1690413       1-       B       e2         L 1028       M.RFC       0.47uH       2%       C1608CB-R39G-RF       L1690413       1-       B       c3         L 1029       M.RFC       1uH       2%       2%       2%       2%       2%       2%       2%       2%       2%       2%       2%       2%       2%       2%       2%       2%       2%       2%<					20/				1		
L 1021       M.RFC       0.082uH       2%       C1608CB-82NG-RF       L1691044       1-       B       e2         L 1024       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1-       B       d2         L 1025       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1-       B       d2         L 1026       M.RFC       0.39uH       2%       C1608CB-R39G-RF       L1691107       1-       B       e2         L 1027       M.RFC       0.39uH       2%       C1608CB-R39G-RF       L1691107       1-       B       e2         L 1028       M.RFC       0.47uH       LK1608 R39K-T       L1690413       1-       B       d3         L 1029       M.RFC       1uH       LK1608 R47K-T       L1690414       1-       B       c3         L 1030       M.RFC       1uH       LK1608 1R0K-T       L1690687       1-       B       d2         L 1032       M.RFC       4.7uH       LK1608 4R7K-T       L1690688       1-       B       e3         MC1001       MICROPHONEELEMENT       CZ034HP363       M3290044       1-       A       G2									1		
L 1024       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1-       B       d2         L 1025       M.RFC       0.047uH       HK1608 47NJ-T       L1690524       1-       B       d2         L 1026       M.RFC       0.39uH       2%       C1608CB-R39G-RF       L1691107       1-       B       e2         L 1027       M.RFC       0.39uH       LK1608 R39K-T       L1690413       1-       B       d3         L 1028       M.RFC       0.47uH       LK1608 R47K-T       L1690414       1-       B       c3         L 1029       M.RFC       1uH       LK1608 1R0K-T       L1690687       1-       B       d2         L 1030       M.RFC       0.15uH       HK1608 R15J-T       L1690938       1-       B       d2         L 1032       M.RFC       4.7uH       LK1608 4R7K-T       L1690688       1-       B       e3         MC1001       MICROPHONEELEMENT       CZ034HP363       M3290044       1-       A       G2									1		
L 1025       M.RFC       0.047uH       2%       HK1608 47NJ-T       L1690524       1-       B       d2         L 1026       M.RFC       0.39uH       2%       C1608CB-R39G-RF       L1691107       1-       B       e2         L 1027       M.RFC       0.39uH       LK1608 R39K-T       L1690413       1-       B       d3         L 1028       M.RFC       0.47uH       LK1608 R47K-T       L1690414       1-       B       c3         L 1029       M.RFC       1uH       LK1608 1R0K-T       L1690687       1-       B       d2         L 1030       M.RFC       0.15uH       HK1608 R15J-T       L1690938       1-       B       d2         L 1032       M.RFC       4.7uH       LK1608 4R7K-T       L1690688       1-       B       e3         MC1001       MICROPHONEELEMENT       CZ034HP363       M3290044       1-       A       G2					Z 70				1		
L 1026       M.RFC       0.39uH       2%       C1608CB-R39G-RF       L1691107       1-       B       e2         L 1027       M.RFC       0.39uH       LK1608 R39K-T       L1690413       1-       B       d3         L 1028       M.RFC       0.47uH       LK1608 R47K-T       L1690414       1-       B       c3         L 1029       M.RFC       1uH       LK1608 1R0K-T       L1690687       1-       B       d2         L 1030       M.RFC       0.15uH       HK1608 R15J-T       L1690938       1-       B       d2         L 1032       M.RFC       4.7uH       LK1608 4R7K-T       L1690688       1-       B       e3         MC1001       MICROPHONEELEMENT       CZ034HP363       M3290044       1-       A       G2									1		
L 1027       M.RFC       0.39uH       LK1608 R39K-T       L1690413       1- B d3         L 1028       M.RFC       0.47uH       LK1608 R47K-T       L1690414       1- B c3         L 1029       M.RFC       1uH       LK1608 1R0K-T       L1690687       1- B d2         L 1030       M.RFC       0.15uH       HK1608 R15J-T       L1690938       1- B d2         L 1032       M.RFC       4.7uH       LK1608 4R7K-T       L1690688       1- B e3         MC1001       MICROPHONEELEMENT       CZ034HP363       M3290044       1- A G2					20/				1		
L 1028       M.RFC       0.47uH       LK1608 R47K-T       L1690414       1-       B       c3         L 1029       M.RFC       1uH       LK1608 1R0K-T       L1690687       1-       B       d2         L 1030       M.RFC       0.15uH       HK1608 R15J-T       L1690938       1-       B       d2         L 1032       M.RFC       4.7uH       LK1608 4R7K-T       L1690688       1-       B       e3         MC1001       MICROPHONEELEMENT       CZ034HP363       M3290044       1-       A       G2					∠70				1		
L 1029     M.RFC     1uH     LK1608 1R0K-T     L1690687     1- B d2       L 1030     M.RFC     0.15uH     HK1608 R15J-T     L1690938     1- B d2       L 1032     M.RFC     4.7uH     LK1608 4R7K-T     L1690688     1- B e3       MC1001     MICROPHONEELEMENT     CZ034HP363     M3290044     1- A G2									1		
L 1030       M.RFC       0.15uH       HK1608 R15J-T       L1690938       1-       B       d2         L 1032       M.RFC       4.7uH       LK1608 4R7K-T       L1690688       1-       B       e3         MC1001       MICROPHONEELEMENT       CZ034HP363       M3290044       1-       A       G2									1		
L 1032         M.RFC         4.7uH         LK1608 4R7K-T         L1690688         1-         B         e3           MC1001         MICROPHONEELEMENT         CZ034HP363         M3290044         1-         A         G2									1		
MC1001         MICROPHONEELEMENT         CZ034HP363         M3290044         1-         A         G2									l		
			-f. / Ul I					1			
	PH1001	POSISTOR				PRF18BG471QB5RB	G9090174				c2

#### Parts List

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAYADR
Q 1001	IC				TAR5S33U(TE85L.F)	G1094549		1-	В	a2
Q 1002	C				TAR5S50U(TE85L.F)	G1094097		1-	В	b3
Q 1003 Q 1004	IC IC				LM2902PWR LM2904PWR	G1094009 G1094010		1-   1-	A	G3 B3
Q 1004 Q 1005	C				TAR5S50U(TE85L.F)	G1094010 G1094097		1-	В	а3
Q 1006	Ĉ				SN74LVC3G14DCTR	G1094258		1-	В	a2
Q 1007	C				S-812C33AUA-C2N-T2G	G1094056		1-	В	a4
Q 1008	TRANSISTOR				2SC5006-T1	G3350068		1-	В	e3
Q 1009 Q 1010	FET   TRANSISTOR				RD09MUP2(TAPE) 2SC5231C8-TL	G3070367 G3352318H		1-   1-	B B	f3 e4
Q 1010	TRANSISTOR				UMD5NTR	G3070343		1-	В	b3
Q 1012	TRANSISTOR				UMD5NTR	G3070343		1-	В	b3
Q 1013	TRANSISTOR				UMD5NTR	G3070343		1-	Α	H4
Q 1014	TRANSISTOR				RT1N441U-T11-1	G3070247		1-	В	e4
Q 1014 Q 1015	TRANSISTOR   FET				DTC144EETL RD01MUS1-T113	G3070075 G3070321		7- 1-	B B	e4 e3
Q 1016	TRANSISTOR				RT1N441U-T11-1	G3070321 G3070247		1-	В	h3
Q 1016	TRANSISTOR				DTC144EETL	G3070075		7-	В	h3
Q 1017	TRANSISTOR				2SC4617 TL R	G3346178R		1-	В	e3
Q 1018	FET				3SK294(TE85L)	G4802948		1-	В	f3
Q 1019 Q 1020	TRANSISTOR TRANSISTOR				FMMTL618TA 2SC5226-5-TL	G3070334 G3352268E		1-   1-	A B	B3 e3
Q 1020 Q 1021	TRANSISTOR				2SA1774 TL R	G3332200L G3117748R		1-	В	c3
Q 1022	TRANSISTOR				2SC4617 TL R	G3346178R		1-	В	c3
Q 1023	TRANSISTOR				2SC4617 TL R	G3346178R		1-	В	c1
Q 1024 Q 1024	TRANSISTOR TRANSISTOR				RT2C00M-T111-1E	G3070284 G3070143		1- 6-	B B	d1 d1
Q 1024 Q 1025	FET				XP1501-(TX) 3SK318 TL	G4803188		1-	В	e2
Q 1026	C				LV2105V-TLM	G1093191		1-	В	c3
Q 1027	TRANSISTOR				DTC143ZETL	G3070102		1-	Α	F3
Q 1028	TRANSISTOR				2SC4915-O(TE85L.F)	G3349158O		1-	В	d2
Q 1029 Q 1030	TRANSISTOR IC				2SC4915-O(TE85L.F) BU2502FS-E2	G3349158O G1094524		1-   1-	B B	c3 d1
Q 1030 Q 1031	i c				NJM2591V-TE1	G1094024		1-	В	c2
Q 1032	ic c				UPD78F1167GC(S)-UEU-AX	G1094605		1-	В	f1
Q 1033	TRANSISTOR				2SC4617 TL R	G3346178R		1-	В	c1
Q 1034	C TRANSISTOR				CD4066BPWR	G1093865		1-	Α	G1
Q 1035 Q 1036	TRANSISTOR IC				DTC144TE-TL R1EX24128ATAS0I	G3070280 ×	AUSTRALIA	1-   1-	В	d1
Q 1036	i c				R1EX24128ATAS0I	*	EUROPE	1-	В	d1
Q 1036	IC				R1EX24128ATAS0I	*	EXPORT	1-	В	d1
Q 1036	C				R1EX24128ATAS0I	*	UK	1-	В	d1
Q 1036 Q 1037	C TRANSISTOR				R1EX24128ATAS0I 2SC4617 TL R	X G3346178R	USA	1-   1-	B B	d1 b2
Q 1037	TRANSISTOR				2SC4617 TL R	G3346178R		1-	В	b2
Q 1039	TRANSISTOR				RT1N441U-T11-1	G3070247		1-	В	h3
Q 1039	TRANSISTOR				DTC144EETL	G3070075		7-	В	h3
Q 1040	TRANSISTOR				2SA1774 TL R	G3117748R		1-	В	h3
Q 1041 Q 1042	TRANSISTOR TRANSISTOR				2SC4617 TL R FMMTL718TA	G3346178R G3070335		1- 1-	A B	F2 g2
Q 1042 Q 1043	TRANSISTOR				2SA1774 TL R	G3070333 G3117748R		1-	В	b2
Q 1045	l C				NJM2211M-TE1	G1092943		1-	В	b1
Q 1046	TRANSISTOR				2SC4617 TL R	G3346178R		1-	A	G2
Q 1047 Q 1048	IC   IC				TDA2822L-S08-R LMV321IDCKR	G1094497 G1093969		1-   1-	B B	h2 b4
Q 1048 Q 1049	C				TC7SET125FU(TE85L.F)	G1093969 G1094750	AUSTRALIA	1- 1-	В	a2
Q 1049	Ĉ				TC7SET125FU(TE85L.F)	G1094750	EUROPE	1-	В	a2
Q 1049	C				TC7SET125FU(TE85L.F)	G1094750	EXPORT	1-	В	a2
Q 1049	C				TC7SET125FU(TE85L.F)	G1094750	UK	1-	В	a2
Q 1049 Q 1050	C TRANSISTOR				TC7SET125FU(TE85L.F) DTC144EETL	G1094750 G3070075	USA AUSTRALIA	1-   1-	B A	a2 H3
Q 1050 Q 1050	TRANSISTOR				DTC144EETL	G3070075 G3070075	EUROPE	1-	A	нз Н3
Q 1050	TRANSISTOR				DTC144EETL	G3070075	EXPORT	1-	A	H3
Q 1050	TRANSISTOR				DTC144EETL	G3070075	UK	1-	Α	H3
Q 1050	TRANSISTOR	471	1/10\4/	E0/	DTC144EETL	G3070075	USA	1-	A	H3
R 1001 R 1002	CHIPRES. CHIPRES.	47k 10k	1/16W 1/16W	5% 5%	RMC1/16S 473JTH RMC1/16S 103JTH	J24189045 J24189037		1- 1-	B B	h3 g3
R 1002	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH RMC1/16S 103JTH	J24189037		1-	В	g3
R 1006	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	A	C3
R 1009	CHIPRES.	0	1/16W	5%	RMC1/16SJPTH	J24189070		1-	В	e3
R 1010	CHIPRES.	220	1/16W	5%	RMC1/16S 221JTH	J24189017		1-	В	e3
R 1011 R 1013	CHIPRES. CHIPRES.	22k 47	1/16W 1/16W	5% 5%	RMC1/16S 223JTH RMC1/16S 470JTH	J24189041 J24189009		1- 1-	B B	e3 d3
K 1013	OF IIF INLO.	+1	1/1000	J /0	1 (100 47 00 1 FT	324103003		1-	ט	uJ

**X**: Please contact Vertex Standard

R1014   CHIPRES   689	REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAYADR
R 1016   CHIPRES   2.7k	R 1014			1/16W		RMC1/16S 681JTH	J24189023		1-	В	
R 1017   CHIPRES   100K	R 1015	CHIPRES.		1/16W		RMC1/16S 221JTH	J24189017		1-	Α	C3
R 1019	R 1016		2.7k	1/16W		RMC1/16S 272JTH	J24189030		1-	В	f3
R 1010   CHIPRES							J24189049		l		
R 1020   CHIPRES	R 1018		680	1/16W		RMC1/16S 681JTH	J24189023		1-	В	f4
R 1012   CHIPRES	R 1019	CHIPRES.	4.7k	1/16W		RMC1/16S 472JTH	J24189033		1-	В	d4
R 1022   CHIPRES   330K   116W   0.5%   MCROIMEPDAT03   J24189332   1-   A   B1     R 1024   CHIPRES   33K   116W   0.5%   MCROIMEPDAT03   J24189332   1-   A   C1     R 1025   CHIPRES   150K   116W   0.5%   MCROIMEPDAT03   J24189335   1-   A   B1     R 1026   CHIPRES   150K   116W   0.5%   MCROIMEPDAT03   J24189355   1-   A   B1     R 1026   CHIPRES   150K   116W   0.5%   MCROIMEPDAT02   J24189355   1-   A   B1     R 1026   CHIPRES   150K   116W   0.5%   MCROIMEPDAT03   J24189355   1-   A   B1     R 1026   CHIPRES   150K   116W   5%   MCROIMEPDAT03   J24189355   1-   A   B1     R 1027   CHIPRES   100K   116W   5%   MCROIMEPDAT03   J24189355   1-   A   B1     R 1028   CHIPRES   100K   116W   5%   MCROIMEPDAT04   J24189040   1-   B   63     R 1030   CHIPRES   220K   116W   5%   MCROIMEPDAT04   J24189040   1-   B   63     R 1031   CHIPRES   220K   116W   5%   MCROIMEPDAT04   J24189055   1-   B   63     R 1032   CHIPRES   330K   116W   5%   MCROIMEPDAT04   J24189033   1-   B   63     R 1033   CHIPRES   4.7K   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1033   CHIPRES   22   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1033   CHIPRES   22   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1033   CHIPRES   22   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1033   CHIPRES   22   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1033   CHIPRES   22   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1034   CHIPRES   22   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1035   CHIPRES   22   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1036   CHIPRES   22   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1036   CHIPRES   22   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1036   CHIPRES   22   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1036   CHIPRES   390   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 1036   CHIPRES   390   116W   5%   MCROIMEPDAT04   J24189035   1-   B   63     R 103	R 1020		6.8k	1/16W		RMC1/16S 682JTH	J24189035		1-	В	d4
R 1022	R 1021	CHIPRES.	47k	1/16W		RMC1/16S 473JTH	J24189045		1-	В	d3
R 1024 CHIPRES	R 1022		330k	1/16W		MCR01MZPD3303	J24189330		1-	Α	B1
R 1026   CHIPRES	R 1023			1/16W		MCR01MZPD4703			1-		C1
R 1006   CHIPRES			33k	1/16W		RMC1/16S 333JTH			1-	В	d3
R 1027   CHIPRES   2.7k									1		
R 1028   CHIPRES	R 1026		150k	1/16W		MCR01MZPD1503			1-		B1
R 1029   CHIPRES.									l		
R 1030   CHIPRES.   100									l		
R 1031   CHIPRES.   220k									l		
R 1903   CHIPRES.   330k									l		
R 1033									l		
R 1034   CHIPRES.   330									l		
R 1035   CHIPRES.   22									1		
R 1036   CHIPRES.									l		
R 1037   CHIPRES									1		
R 1038   CHIPRES.   22									l		
R 1041   CHIPRES.   22									l		
R 1042 CHIPRES.									l		
R 1043   CHIPRES									l		
R 1044   CHIPRES   270									l		
R 1046   CHIPRES   22									l		
R 1046   CHIPRES   390									l		
R 1047   CHIPRES.   390									1		
R 1048 CHIPRES.									l		
R 1090 CHIPRES. 68 1/16W 5% RMC1/16S 181JTH J24189016 1- B e2 RMC1/4 R680JATP J24245680 1- A B3 R 1051 CHIPRES. 100 1/16W 5% RMC1/16S 101JTH J24189013 1- B e3 R 1052 CHIPRES. 180 1/16W 5% RMC1/16S 22JTH J24189029 1- B 63 R 1052 CHIPRES. 180 1/16W 5% RMC1/16S 22JTH J24189016 1- B d3 R 1055 CHIPRES. 180 1/16W 5% RMC1/16S 181JTH J24189016 1- B d2 R 1055 CHIPRES. 100 1/16W 5% RMC1/16S 181JTH J24189013 1- B f2 R 1055 CHIPRES. 100 1/16W 5% RMC1/16S 181JTH J24189013 1- B f2 R 1056 CHIPRES. 100 1/16W 5% RMC1/16S 181JTH J24189013 1- B f2 R 1057 CHIPRES. 6.8k 1/16W 5% RMC1/16S 181JTH J24189035 1- B e2 R 1059 CHIPRES. 10k 1/16W 5% RMC1/16S 103JTH J24189037 1- B e3 R 1059 CHIPRES. 11k 1/16W 5% RMC1/16S 103JTH J24189037 1- B e3 R 1059 CHIPRES. 180 1/16W 5% RMC1/16S 102JTH J24189025 1- A A 33 R 1060 CHIPRES. 180 1/16W 5% RMC1/16S 102JTH J24189013 1- B d2 R 1061 CHIPRES. 180 1/16W 5% RMC1/16S 103JTH J24189013 1- B d3 R 1062 CHIPRES. 180 1/16W 5% RMC1/16S 103JTH J24189013 1- B d3 R 1062 CHIPRES. 180 1/16W 5% RMC1/16S 103JTH J24189016 1- B d2 R 1061 CHIPRES. 180 1/16W 5% RMC1/16S 181JTH J24189016 1- B d2 R 1066 CHIPRES. 180 1/16W 5% RMC1/16S 181JTH J24189016 1- B d2 R 1066 CHIPRES. 180 1/16W 5% RMC1/16S 181JTH J24189016 1- B d2 R 1066 CHIPRES. 47k 1/16W 5% RMC1/16S 181JTH J24189016 1- B d2 R 1066 CHIPRES. 47k 1/16W 5% RMC1/16S 181JTH J24189016 1- B d2 R 1066 CHIPRES. 47k 1/16W 5% RMC1/16S 27JTH J24189005 1- B d3 R 1070 CHIPRES. 47k 1/16W 5% RMC1/16S 27JTH J24189005 1- B d3 R 1070 CHIPRES. 47k 1/16W 5% RMC1/16S 27JTH J24189045 1- A B3 R 1070 CHIPRES. 47k 1/16W 5% RMC1/16S 27JTH J24189045 1- A B3 R 1070 CHIPRES. 47k 1/16W 5% RMC1/16S 27JTH J24189045 1- B d3 R 1070 CHIPRES. 47k 1/16W 5% RMC1/16S 27JTH J24189045 1- B d3 R 1070 CHIPRES. 47k 1/16W 5% RMC1/16S 27JTH J24189045 1- B d3 R 1070 CHIPRES. 47k 1/16W 5% RMC1/16S 27JTH J24189045 1- B d3 R 1070 CHIPRES. 47k 1/16W 5% RMC1/16S 27JTH J24189045 1- B d3 R 1070 CHIPRES. 47k 1/16W 5% RMC1/16S 27JTH J24189045 1- B d3 R 1070 CHIPRES. 18 1/16W 5% RMC1/16S 18JJTH J24189045 1- B d3 R 1070									l		
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R 1057 CHIPRES.									l		
R 1058 CHIPRES. 10k 1/16W 5% RMC1/16S 103JTH J24189037 1- B e3 R1059 CHIPRES. 180 1/16W 5% RMC1/16S 103JTH J24189016 1- B d2 R1061 CHIPRES. 180 1/16W 5% RMC1/16S 101JTH J24189016 1- B d2 R1061 CHIPRES. 180 1/16W 5% RMC1/16S 101JTH J24189017 1- B d3 R1062 CHIPRES. 180 1/16W 5% RMC1/16S 101JTH J24189017 1- B d3 R1062 CHIPRES. 180 1/16W 5% RMC1/16S 18JTH J24189017 1- B d3 R1062 CHIPRES. 180 1/16W 5% RMC1/16S 18JTH J24189016 1- B d2 R1066 CHIPRES. 180 1/16W 5% RMC1/16S 18JTH J24189016 1- B d2 R1066 CHIPRES. 47k 1/16W 5% RMC1/16S 18JTH J24189016 1- B d3 R1067 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- A B3 R1067 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- A C3 R1066 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- A B3 R1070 CHIPRES. 47k 1/16W 5% RMC1/16S 22JJTH J24189045 1- A B3 R1070 CHIPRES. 22 1/16W 5% RMC1/16S 22JJTH J2418905 1- B c4 R1071 CHIPRES. 22k 1/16W 5% RMC1/16S 22JJTH J2418905 1- B c4 R1071 CHIPRES. 22k 1/16W 5% RMC1/16S 27JJTH J24189045 1- B c3 R1074 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189041 1- A B3 R1074 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189041 1- A B3 R1074 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B c3 R1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B c3 R1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B c3 R1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B c3 R1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B c3 R1076 CHIPRES. 47k 1/16W 5% RMC1/16S 180JTH J24189045 1- B c3 R1076 CHIPRES. 47k 1/16W 5% RMC1/16S 180JTH J24189045 1- B c3 R1076 CHIPRES. 47k 1/16W 5% RMC1/16S 180JTH J24189004 1- B c3 R1076 CHIPRES. 18 R1078 CHIPRES. 18 R1078 CHIPRES. 18 R1078 CHIPRES. 18 R1079 CHIPRES. 18 R1078 CHIPRES. 18 R1079 CHIPRES. 1000 K1/16W 5% RMC1/16S 10JJTH J24189049 1- B d3 R1077 CHIPRES. 1									l		
R 1059 CHIPRES. 1k 1/16W 5% RMC1/16S 102JTH J24189025 1- A A A3 R 1060 CHIPRES. 100 1/16W 5% RMC1/16S 10JJTH J24189016 1- B d2 R 1061 CHIPRES. 100 1/16W 5% RMC1/16S 683JTH J24189047 1- A A3 R 1062 CHIPRES. 180 1/16W 5% RMC1/16S 683JTH J24189047 1- A A3 R 1063 CHIPRES. 180 1/16W 5% RMC1/16S 683JTH J24189047 1- A A3 R 1063 CHIPRES. 0 1/16W 5% RMC1/16S 683JTH J24189046 1- B d2 R 1066 CHIPRES. 0 1/16W 5% RMC1/16S 18JJTH J24189070 1- B d3 R 1067 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- A B3 R 1069 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- A B3 R 1069 CHIPRES. 22 1/16W 5% RMC1/16S 22DJTH J24189045 1- B C4 R 1070 CHIPRES. 22 1/16W 5% RMC1/16S 22DJTH J24189045 1- B C3 R 1070 CHIPRES. 22 1/16W 5% RMC1/16S 22DJTH J24189045 1- B C3 R 1073 CHIPRES. 22k 1/16W 5% RMC1/16S 22JTH J24189045 1- B C4 R 1071 CHIPRES. 22k 1/16W 5% RMC1/16S 22JTH J24189045 1- B C4 R 1075 CHIPRES. 22k 1/16W 5% RMC1/16S 22JTH J24189045 1- B C4 R 1075 CHIPRES. 22k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C4 R 1075 CHIPRES. 270 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 180JTH J24189045 1- B C3 R 1078 CHIPRES. 47k 1/16W 5% RMC1/16S 180JTH J24189045 1- B C3 R 1078 CHIPRES. 47k 1/16W 5% RMC1/16S 180JTH J24189045 1- B C3 R 1078 CHIPRES. 47k 1/16W 5% RMC1/16S 180JTH J24189045 1- B C3 R 1079 CHIPRES. 18 1/16W 5% RMC1/16S 180JTH J24189045 1- B C3 R 1079 CHIPRES. 18 1/16W 5% RMC1/16S 180JTH J24189045 1- B C3 R 1088 CHIPRES. 18 1/16W 5% RMC1/16S 180JTH J24189045 1- B C3 R 1088 CHIPRES. 100k 1/16W 5% RMC1/16S 10JTH J24189045 1- B D4 R 1086 CHIPRES. 100k 1/16W 5% RMC1/16S 10J									l		
R 1060									1-		
R 1062 CHIPRES. 68k 1/16W 5% RMC1/16S 683JTH J24189047 1- A A3 R 1063 CHIPRES. 180 1/16W 5% RMC1/16S 181JTH J24189016 1- B d2 R 1066 CHIPRES. 0 1/16W 5% RMC1/16S 181JTH J24189070 1- B e3 R 1067 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- A C3 R 1068 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- A C3 R 1069 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- A B3 R 1070 CHIPRES. 22 1/16W 5% RMC1/16S 22JJTH J24189045 1- B C4 R 1071 CHIPRES. 220 1/16W 5% RMC1/16S 22JJTH J24189045 1- B C4 R 1071 CHIPRES. 22k 1/16W 5% RMC1/16S 22JJTH J24189018 1- B C3 R 1074 CHIPRES. 22k 1/16W 5% RMC1/16S 22JJTH J24189045 1- B C3 R 1074 CHIPRES. 47k 1/16W 5% RMC1/16S 27JJTH J24189045 1- B C4 R 1075 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C4 R 1075 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C4 R 1075 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1076 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1078 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1078 CHIPRES. 47k 1/16W 5% RMC1/16S 473JTH J24189045 1- B C3 R 1078 CHIPRES. 18 1/16W 5% RMC1/16S 473JTH J24189045 1- B C1 R 1080 CHIPRES. 18 1/16W 5% RMC1/16S 180JTH J24189045 1- B C1 R 1080 CHIPRES. 18 1/16W 5% RMC1/16S 180JTH J24189049 1- B C1 R 1080 CHIPRES. 100k 1/16W 5% RMC1/16S 180JTH J24189049 1- B C1 R 1083 CHIPRES. 100k 1/16W 5% RMC1/16S 180JTH J24189049 1- B C1 R 1084 CHIPRES. 100k 1/16W 5% RMC1/16S 180JTH J24189049 1- B D4 R 1085 CHIPRES. 100k 1/16W 5% RMC1/16S 180JTH J24189049 1- B D4 R 1085 CHIPRES. 100k 1/16W 5% RMC1/16S 104JTH J24189049 1- B D4 R 1085 CHIPRES. 27k 1/16W 5% RMC1/16S 104JTH J24189049 1- B D4 R 1085 CHIPRES. 27k 1/16W 5% RM		CHIPRES.		1/16W	5%		J24189016		1-	В	d2
R 1063	R 1061	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	d3
R 1066	R 1062	CHIPRES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	Α	A3
R 1067			180	1/16W		RMC1/16S 181JTH	J24189016		1-		d2
R 1068   CHIPRES.		CHIPRES.				RMC1/16S JPTH	J24189070				
R 1069									1	Α	
R 1070   CHIPRES.   22									1		
R 1071   CHIPRES.   270									1		
R 1073									1		
R 1074   CHIPRES.									l		
R 1075   CHIPRES.									1		
R 1076   CHIPRES.									l		
R 1077									1		
R 1078									l		
R 1079									1		
R 1080   CHIPRES.   18									l		
R 1081									1		
R 1082       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1- A C1         R 1083       CHIPRES.       150       1/16W       5%       RMC1/16S 151JTH       J24189015       1- B c1         R 1084       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1- B b4         R 1085       CHIPRES.       47k       1/16W       5%       RMC1/16S 473JTH       J24189045       1- A B1         R 1086       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1- B b4         R 1087       CHIPRES.       1M       1/16W       5%       RMC1/16S 105JTH       J24189061       1- B b4         R 1088       CHIPRES.       220       1/16W       5%       RMC1/16S 221JTH       J24189047       1- B d1         R 1089       CHIPRES.       27k       1/16W       5%       RMC1/16S 104JTH       J24189049       1- A B3         R 1090       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1- A C1         R 1091       CHIPRES.       27k       1/16W       5%       RMC1/16S 273JTH       J24189042       1- A B3									l		
R 1083       CHIPRES.       150       1/16W       5%       RMC1/16S 151JTH       J24189015       1-       B       c1         R 1084       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1-       B       b4         R 1085       CHIPRES.       47k       1/16W       5%       RMC1/16S 473JTH       J24189045       1-       A       B1         R 1086       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1-       B       b4         R 1087       CHIPRES.       1M       1/16W       5%       RMC1/16S 105JTH       J24189061       1-       B       b4         R 1088       CHIPRES.       220       1/16W       5%       RMC1/16S 221JTH       J24189047       1-       B       d1         R 1089       CHIPRES.       27k       1/16W       5%       RMC1/16S 104JTH       J24189042       1-       A       B3         R 1090       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1-       A       C1         R 1091       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049									1		
R 1084   CHIPRES.   100k   1/16W   5%   RMC1/16S 104JTH   J24189049   1-   B   b4   R 1085   CHIPRES.   47k   1/16W   5%   RMC1/16S 473JTH   J24189045   1-   A   B1   R 1086   CHIPRES.   100k   1/16W   5%   RMC1/16S 104JTH   J24189049   1-   B   b4   R 1087   CHIPRES.   1M   1/16W   5%   RMC1/16S 105JTH   J24189061   1-   B   b4   R 1088   CHIPRES.   220   1/16W   5%   RMC1/16S 221JTH   J24189047   1-   B   d1   R 1089   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3   R 1090   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189049   1-   A   C1   R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3   R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3   R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3   R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3   R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3   R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3   R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3   R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3   R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3   R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   RMC1/16S 2									l		
R 1085       CHIPRES.       47k       1/16W       5%       RMC1/16S 473JTH       J24189045       1-       A       B1         R 1086       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1-       B       b4         R 1087       CHIPRES.       1M       1/16W       5%       RMC1/16S 105JTH       J24189061       1-       B       b4         R 1088       CHIPRES.       220       1/16W       5%       RMC1/16S 221JTH       J24189017       1-       B       d1         R 1089       CHIPRES.       27k       1/16W       5%       RMC1/16S 273JTH       J24189042       1-       A       B3         R 1090       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1-       A       C1         R 1091       CHIPRES.       27k       1/16W       5%       RMC1/16S 273JTH       J24189042       1-       A       B3									1		
R 1086       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1-       B       b4         R 1087       CHIPRES.       1M       1/16W       5%       RMC1/16S 105JTH       J24189061       1-       B       b4         R 1088       CHIPRES.       220       1/16W       5%       RMC1/16S 221JTH       J24189017       1-       B       d1         R 1089       CHIPRES.       27k       1/16W       5%       RMC1/16S 273JTH       J24189042       1-       A       B3         R 1090       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1-       A       C1         R 1091       CHIPRES.       27k       1/16W       5%       RMC1/16S 273JTH       J24189042       1-       A       B3									l		
R 1087       CHIPRES.       1M       1/16W       5%       RMC1/16S 105JTH       J24189061       1-       B       b4         R 1088       CHIPRES.       220       1/16W       5%       RMC1/16S 221JTH       J24189017       1-       B       d1         R 1089       CHIPRES.       27k       1/16W       5%       RMC1/16S 273JTH       J24189042       1-       A       B3         R 1090       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1-       A       C1         R 1091       CHIPRES.       27k       1/16W       5%       RMC1/16S 273JTH       J24189042       1-       A       B3									1		
R 1088       CHIPRES.       220       1/16W       5%       RMC1/16S 221JTH       J24189017       1-       B       d1         R 1089       CHIPRES.       27k       1/16W       5%       RMC1/16S 273JTH       J24189042       1-       A       B3         R 1090       CHIPRES.       100k       1/16W       5%       RMC1/16S 104JTH       J24189049       1-       A       C1         R 1091       CHIPRES.       27k       1/16W       5%       RMC1/16S 273JTH       J24189042       1-       A       B3									l		
R 1089     CHIPRES.     27k     1/16W     5%     RMC1/16S 273JTH     J24189042     1-     A     B3       R 1090     CHIPRES.     100k     1/16W     5%     RMC1/16S 104JTH     J24189049     1-     A     C1       R 1091     CHIPRES.     27k     1/16W     5%     RMC1/16S 273JTH     J24189042     1-     A     B3									1		
R 1090   CHIPRES.   100k   1/16W   5%   RMC1/16S 104JTH   J24189049   1-   A   C1   R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3									l	1	
R 1091   CHIPRES.   27k   1/16W   5%   RMC1/16S 273JTH   J24189042   1-   A   B3									l		
									l		
	R 1092	CHIPRES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1		

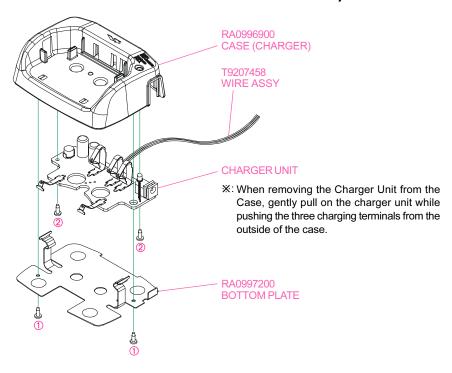
REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAYADR
R 1093	CHIPRES.	18k	1/16W	5%	RMC1/16S 183JTH	J24189040		1-	Α	В3
R 1094	CHIPRES.	18k	1/16W	5%	RMC1/16S 183JTH	J24189040		1-	Α	B3
R 1095	CHIPRES. CHIPRES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	d1
R 1096 R 1097	CHIPRES.	3.3k 100k	1/16W 1/16W	5% 5%	RMC1/16S 332JTH RMC1/16S 104JTH	J24189031 J24189049		1-   1-	B B	c3 e2
R 1098	CHIPRES.	100k	1/16W	5%	RMC1/16S 1043111	J24189049		1-	В	e2
R 1099	CHIPRES.	22	1/16W	5%	RMC1/16S 220JTH	J24189005		i -	Ā	C3
R 1100	CHIPRES.	1.2k	1/16W	5%	RMC1/16S 122JTH	J24189026		1-	Α	C3
R 1101	CHIPRES.	560	1/16W	5%	RMC1/16S 561JTH	J24189022		1-	Α	C3
R 1102	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	e2
R 1103	CHIPRES.	120k	1/16W	5%	RMC1/16S 124JTH	J24189050		1-	В	e2
R 1104	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	e3
R 1105 R 1106	CHIPRES.	47	1/16W 1/16W	5%	RMC1/16S 470JTH	J24189009		1-   1-	B B	e2
R 1106	CHIPRES. CHIPRES.	150 2.2k	1/16W	5% 5%	RMC1/16S 151JTH RMC1/16S 222JTH	J24189015 J24189029		1-   1-	В	e2 d3
R 1108	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	e2
R 1109	CHIPRES.	0	1/16W	5%	RMC1/16SJPTH	J24189070	W/CE LABEL	i-	В	d2
R 1109	CHIPRES.	390	1/16W	5%	RMC1/16S 391JTH	J24189020	W/O CE LABEL	1-	В	d2
R 1110	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	e3
R 1114	CHIPRES.	0	1/16W	5%	RMC1/16S JPTH	J24189070	W/O CE LABEL	1-	В	d2
R 1115	CHIPRES.	22	1/16W	5%	RMC1/16S 220JTH	J24189005		1-	В	c3
R 1116	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	A	G3
R 1117	CHIPRES. CHIPRES.	100 680	1/16W 1/16W	5% 5%	RMC1/16S 101JTH	J24189013	W/CE LABEL	1-   1-	В	c3 d2
R 1118	CHIPRES.	270	1/16W 1/16W	5% 5%	RMC1/16S 681JTH RMC1/16S 271JTH	J24189023 J24189018	W/CE LABEL	1-   1-	B B	d2 d2
R 1119	CHIPRES.	100	1/16W	5%	RMC1/16S 27 13 111	J24189013	WOOLLABLE	1-	В	d2 d3
R 1120	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	d3
R 1122	CHIPRES.	0	1/16W	5%	RMC1/16S JPTH	J24189070		1-	В	d2
R 1123	CHIPRES.	150k	1/16W	5%	RMC1/16S 154JTH	J24189051		1-	В	c3
R 1124	CHIPRES.	22	1/16W	5%	RMC1/16S 220JTH	J24189005		1-	В	d1
R 1125	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	c3
R 1127	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	A	B1
R 1128 R 1129	CHIPRES. CHIPRES.	12k 22k	1/16W 1/16W	5% 5%	RMC1/16S 123JTH RMC1/16S 223JTH	J24189038 J24189041		1-   1-	A A	B1 B1
R 1130	CHIPRES.	100k	1/16W	0.5%	MCR01MZPD1003	J24189386		1-	A	H3
R 1131	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	A	B1
R 1132	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	d1
R 1133	CHIPRES.	470k	1/16W	5%	RMC1/16S 474JTH	J24189057		1-	Α	H3
R 1134	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	e2
R 1135	CHIPRES.	39k	1/16W	5%	RMC1/16S 393JTH	J24189044		1-	Α	G4
R 1136	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	e2
R 1137 R 1138	CHIPRES. CHIPRES.	100 100k	1/16W 1/16W	5% 0.5%	RMC1/16S 101JTH MCR01MZPD1003	J24189013 J24189386		1-   1-	B A	e2 G3
R 1139	CHIPRES.	39k	1/16W	5%	RMC1/16S 393JTH	J24189044		1-	A	G3 G4
R 1141	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	d2
R 1143	CHIPRES.	8.2k	1/16W	5%	RMC1/16S 822JTH	J24189036		1-	Ā	G4
R 1145	CHIPRES.	6.8k	1/16W	5%	RMC1/16S 682JTH	J24189035		1-	В	c2
R 1146	CHIPRES.	270k	1/16W	5%	RMC1/16S 274JTH	J24189054		1-	В	c2
R 1148	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	Α	C2
R 1149	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	A	C2
R 1150	CHIPRES. CHIPRES.	10k	1/16W 1/16W	5% 5%	RMC1/16S 103JTH	J24189037		1-   1-	A	C1
R 1151 R 1152	CHIPRES.	1k   1k	1/16W 1/16W	5% 5%	RMC1/16S 102JTH RMC1/16S 102JTH	J24189025 J24189025		1-   1-	A A	G4 G3
R 1153	CHIPRES.	220	1/16W	5%	RMC1/16S 1023111	J24189017		1-	В	e2
R 1154	CHIPRES.	1.5k	1/16W	5%	RMC1/16S 152JTH	J24189027		1-	В	d2
R 1155	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	Ā	C1
R 1157	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029	W/ CE LABEL	1-	В	c2
R 1157	CHIPRES.	1.5k	1/16W	5%	RMC1/16S 152JTH	J24189027	W/O CE LABEL	1-	В	c2
R 1158	CHIPRES.	12k	1/16W	5%	RMC1/16S 123JTH	J24189038		1-	В	c2
R 1159	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	A	G3
R 1161 R 1162	CHIPRES. CHIPRES.	3.3k 22	1/16W 1/16W	5% 5%	RMC1/16S 332JTH RMC1/16S 220JTH	J24189031 J24189005		1- 1-	B B	c2 d3
R 1162	CHIPRES.	1M	1/16W	5%	RMC1/16S 22031H RMC1/16S 105JTH	J24189061		1-	А	G1
R 1164	CHIPRES.	470k	1/16W	5%	RMC1/16S 474JTH	J24189057		1-	A	H3
R 1165	CHIPRES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	c2
R 1166	CHIPRES.	1M	1/16W	5%	RMC1/16S 105JTH	J24189061		1-	Ā	G1
R 1167	CHIPRES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	Α	G3
R 1168	CHIPRES.	180k	1/16W	5%	RMC1/16S 184JTH	J24189052		1-	Α	G3
R 1169	CHIPRES.	470k	1/16W	5%	RMC1/16S 474JTH	J24189057		1-	A	G3
R 1170	CHIPRES.	1M	1/16W 1/16W	5% 5%	RMC1/16S 105JTH	J24189061		1-	В	e1
R 1171 R 1172	CHIPRES. CHIPRES.	330k 2.2k	1/16W 1/16W	5% 5%	RMC1/16S 334JTH RMC1/16S 222JTH	J24189055 J24189029		1-   1-	B A	c1 G3
R 1172	CHIPRES.	100	1/16W	5%	RMC1/16S 22231H RMC1/16S 101JTH	J24189013		1-	В	c1
13 1113	O: III 1\LO.	100	1/1000	J /0	13310 1/100 1010111	027103013		1.7		_ · ·

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAYADR
R 1174	CHIPRES.	3.3k	1/16W	5%	RMC1/16S 332JTH	J24189031		1-	В	c1
R 1175	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	Α	G3
R 1176	CHIPRES.	22	1/16W	5%	RMC1/16S 220JTH	J24189005		1-	Α	H3
R 1177	CHIPRES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	В	e1
R 1178 R 1179	CHIPRES. CHIPRES.	4.7k 10k	1/16W 1/16W	5% 5%	RMC1/16S 472JTH RMC1/16S 103JTH	J24189033 J24189037		1-   1-	B B	e1 c1
R 1179	CHIPRES.	470k	1/16W	5%	RMC1/16S 103JTH RMC1/16S 474JTH	J24189057		1-	A	H3
R 1181	CHIPRES.	22	1/16W	5%	RMC1/16S 220JTH	J24189005		1-	A	G1
R 1182	CHIPRES.	18k	1/16W	5%	RMC1/16S 183JTH	J24189040		i-	A	H3
R 1183	CHIPRES.	1M	1/16W	5%	RMC1/16S 105JTH	J24189061		1-	Α	G1
R 1184	CHIPRES.	5.6k	1/16W	5%	RMC1/16S 562JTH	J24189034		1-	Α	G3
R 1185	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	Α	H3
R 1186	CHIPRES.	1M	1/16W	5%	RMC1/16S 105JTH	J24189061		1-	A	G1
R 1188	CHIPRES.	68k	1/16W	5%	RMC1/16S 683JTH	J24189047		1-	В	c1
R 1189 R 1190	CHIPRES. CHIPRES.	120k 5.6k	1/16W 1/16W	5% 5%	RMC1/16S 124JTH RMC1/16S 562JTH	J24189050 J24189034		1-   1-	B B	b1 b2
R 1191	CHIPRES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189034		1-	В	b2
R 1192	CHIPRES.	33k	1/16W	5%	RMC1/16S 333JTH	J24189043		1-	В	b2
R 1193	CHIPRES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	В	b2
R 1194	CHIPRES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	В	b2
R 1195	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	b1
R 1196	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	b2
R 1197	CHIPRES.	15k	1/16W	5%	RMC1/16S 153JTH	J24189039		1-	В	b2
R 1198 R 1199	CHIPRES. CHIPRES.	1k 47k	1/16W 1/16W	5% 5%	RMC1/16S 102JTH RMC1/16S 473JTH	J24189025 J24189045		1- 1-	B B	b2 b1
R 1199	CHIPRES.	10k	1/16W	5%	RMC1/16S 473JTH	J24189045 J24189037		1-	B	b2
R 1200	CHIPRES.	33k	1/16W	5%	RMC1/16S 1033111	J24189043		1-	В	a2
R 1202	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	g3
R 1203	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	b1
R 1204	CHIPRES.	100	1/16W	5%	RMC1/16S 101JTH	J24189013		1-	В	b1
R 1205	CHIPRES.	18k	1/16W	5%	RMC1/16S 183JTH	J24189040		1-	В	a2
R 1206	CHIPRES.	0	1/16W	5%	RMC1/16S JPTH	J24189070		1-	В	h2
R 1207	CHIPRES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	В	b1
R 1208 R 1209	CHIPRES. CHIPRES.	1k 2.2	1/16W 1/4W	5% 5%	RMC1/16S 102JTH RMC1/4 2R2JATP	J24189025 J24245229		1- 1-	A B	F1 g2
R 1209	CHIPRES.	2.2 2.2k	1/4VV 1/16W	5%	RMC1/42R2JATP	J24243229 J24189029		1-	A	G2
R 1211	CHIPRES.	1k	1/16W	5%	RMC1/16S 2223111	J24189025		1-	B	h3
R 1212	CHIPRES.	12k	1/16W	5%	RMC1/16S 123JTH	J24189038		i-	В	b2
R 1213	CHIPRES.	22	1/16W	5%	RMC1/16S 220JTH	J24189005		1-	В	b1
R 1214	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	h3
R 1215	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	В	b2
R 1216	CHIPRES.	220	1/16W	5%	RMC1/16S 221JTH	J24189017		1-	В	h1
R 1217	CHIPRES.	18k	1/16W	5%	RMC1/16S 183JTH	J24189040		1-	В	a3
R 1220 R 1221	CHIPRES. CHIPRES.	22k 33k	1/16W 1/16W	5%	RMC1/16S 223JTH RMC1/16S 333JTH	J24189041 J24189043		1- 1-	A B	F2 a3
R 1221	CHIPRES.	0	1/16W	5% 5%	RMC1/16S JPTH	J24189043	W/ CE LABEL	1-	В	g2
R 1223	CHIPRES.	100k	1/16W	5%	RMC1/16S 104JTH	J24189049	W OL LABLE	1-	В	a3
R 1224	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	В	h2
R 1225	CHIPRES.	15k	1/16W	5%	RMC1/16S 153JTH	J24189039		1-	Α	F2
R 1227	CHIPRES.	2.7k	1/16W	5%	RMC1/16S 272JTH	J24189030		1-	Α	F2
R 1228	CHIPRES.	560	1/16W	5%	RMC1/16S 561JTH	J24189022		1-	A	G2
R 1229	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	B	a3
R 1230 R 1231	CHIPRES. CHIPRES.	2.2k 180k	1/16W 1/16W	5% 5%	RMC1/16S 222JTH RMC1/16S 184JTH	J24189029 J24189052		1- 1-	B A	b2 F2
R 1231	CHIPRES.	82k	1/16W	5%	RMC1/16S 184JTH RMC1/16S 823JTH	J24189052 J24189048		1-	A	G2
R 1232	CHIPRES.	100k	1/16W	5%	RMC1/16S 6233111 RMC1/16S 104JTH	J24189049		1-	В	a1
R 1234	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	В	b2
R 1235	CHIPRES.	4.7k	1/16W	5%	RMC1/16S 472JTH	J24189033		1-	Ā	G2
R 1236	CHIPRES.	4.7	1/16W	5%	RMC1/16S4R7JTH	J24189066		1-	В	h2
R 1237	CHIPRES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	В	h2
R 1238	CHIPRES.	220	1/8W	5%	RMC1/8T 221J	J24215221		1-	A	H2
R 1239	CHIPRES.	1.2k	1/16W	5%	RMC1/16S 122JTH	J24189026		1-	A	H3
R 1240 R 1241	CHIPRES. CHIPRES.	47k 2.2k	1/16W 1/16W	5% 5%	RMC1/16S 473JTH RMC1/16S 222JTH	J24189045 J24189029		1- 1-	B B	a1 b2
R 1241	CHIPRES.	10k	1/16W	0.5%	MCR01MZPD1002	J24189029 J24189374		1-	B	a1
R 1242	CHIPRES.	10k	1/16W	0.5%	MCR01MZPD1002	J24189374 J24189374		1-	В	b1
R 1244	CHIPRES.	1k	1/16W	0.5%	MCR01MZPD1001	J24189362		1-	В	b1
R 1245	CHIPRES.	4.7	1/16W	5%	RMC1/16S 4R7JTH	J24189066		1-	В	h2
R 1246	CHIPRES.	8.2k	1/16W	5%	RMC1/16S 822JTH	J24189036		1-	A	G2
R 1247	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	Α	C2
R 1248	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	A	C2
R 1249	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	A	C2
R 1250	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	Α	C2

REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT	SIDE	LAYADR
R 1251	CHIPRES.	2.2k	1/16W	5%	RMC1/16S 222JTH	J24189029		1-	Α	В3
R 1252	CHIPRES.	3.3k	1/16W	5%	RMC1/16S 332JTH	J24189031		1-	В	b2
R 1253	CHIPRES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	В	c2
R 1255 R 1256	CHIPRES. CHIPRES.	22 10k	1/16W 1/16W	5% 5%	RMC1/16S 220JTH RMC1/16S 103JTH	J24189005 J24189037		1- 1-	B B	b4 b3
R 1257	CHIPRES.	10k	1/16W	5%	RMC1/16S 1033TH	J24189037		1-	В	b3
R 1258	CHIPRES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	В	b3
R 1259	CHIPRES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	В	b4
R 1260	CHIPRES.	0	1/16W	5%	RMC1/16SJPTH	J24189070		1-	В	a2
R 1261	CHIPRES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	A	C1
R 1264	CHIPRES. CHIPRES.	4.7k 330k	1/16W 1/16W	5% 5%	RMC1/16S 472JTH RMC1/16S 334JTH	J24189033	ALICTDALIA	1- 1-	В	b3
R 1266 R 1266	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055 J24189055	AUSTRALIA EUROPE	1-	B B	a2 a2
R 1266	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055	EXPORT	1-	В	a2
R 1266	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055	UK	1-	В	a2
R 1266	CHIPRES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055	USA	1-	В	a2
R 1267	CHIPRES.	470	1/16W	5%	RMC1/16S 471JTH	J24189021	AUSTRALIA	1-	Α	H3
R 1267	CHIPRES.	470	1/16W	5%	RMC1/16S 471JTH	J24189021	EUROPE	1-	A	H3
R 1267	CHIPRES.	470	1/16W	5%	RMC1/16S 471JTH	J24189021	EXPORT	1-	A	H3
R 1267 R 1267	CHIPRES. CHIPRES.	470 470	1/16W 1/16W	5% 5%	RMC1/16S 471JTH RMC1/16S 471JTH	J24189021 J24189021	UKI USA	1- 1-	A	H3 H3
R 1267	CHIPRES.	10k	1/16W	5%	RMC1/16S 47 13 TH RMC1/16S 103JTH	J24189021 J24189037	AUSTRALIA	1-	A	H3
R 1268	CHIPRES.	10k 10k	1/16W	5%	RMC1/16S 1033111	J24189037	EUROPE	1-	A	H3
R 1268	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037	EXPORT	1-	A	H3
R 1268	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037	UK	1-	Α	H3
R 1268	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037	USA	1-	Α	H3
R 1269	CHIPRES.	560k	1/16W	5%	RMC1/16S 564JTH	J24189058	AUSTRALIA	1-	A	H3
R 1269	CHIPRES.	560k	1/16W	5%	RMC1/16S 564JTH	J24189058	EUROPE	1-	A	H3
R 1269 R 1269	CHIPRES. CHIPRES.	560k 560k	1/16W 1/16W	5% 5%	RMC1/16S 564JTH RMC1/16S 564JTH	J24189058 J24189058	EXPORT UK	1- 1-	A	H3 H3
R 1269	CHIPRES.	560k	1/16W	5%	RMC1/16S 564JTH	J24189058	USA	1-	A	H3
R 1271	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037	AUSTRALIA	1-	A	H3
R 1271	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037	EUROPE	1-	Α	H3
R 1271	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037	EXPORT	1-	Α	H3
R 1271	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037	UK	1-	Α	H3
R 1271	CHIPRES.	10k	1/16W	5%	RMC1/16S 103JTH	J24189037	USA	1-	A	H3
RB1001 RB1002	BLOCK RES.				MNR04M0ABJ102	J42900039		1- 1-	A	G3 B2
RB1002	BLOCK RES. BLOCK RES.				MNR18E0APJ103 MNR04M0ABJ102	J42900033 J42900039		1-   1-	A B	e1
S 1012	TACT SWITCH				SKQTLA	N5090110		1-	В	g4
S 1013	TACT SWITCH				SKQTLA	N5090110		1-	В	g1
TH1001	THERMISTOR				TH05 4B473FR	G9090150		1-	В	f4
TH1002	THERMISTOR				TH05 4B473FR	G9090150		1-	В	b4
X 1001	XTAL NX5032SA	11.7MHz			11.7MHZ	H0103320		1-	В	c3
X 1002 XF1001	XTAL SMD-49TA XTAL FILTER	9.8304MHz			9.8304MHZ MFT47R 47.25MHZ	H0103393 H1102352	W/CE LABEL	1-	B B	e1 d2
XF1001	XTAL FILTER				7050M 47.25S13A	H1102332	W/OCE LABEL	1-	В	d2
7 1001	LIGHTGUIDE				(LCD)	RA1002100	0 0 1 10 10 1	1-		<u> </u>
	REFLECTORSHEET				(LCD)	RA1002200		1-		
	MICHOLDER RUBBER				, ,	RA0992100		1-		
	REFLECTORSHEET				(S)	RA1041600		1-		

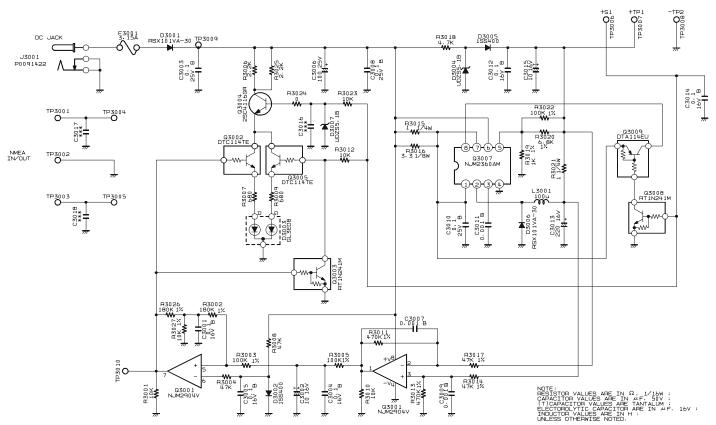
# CD-38 Charger Cradle

### Exploded View



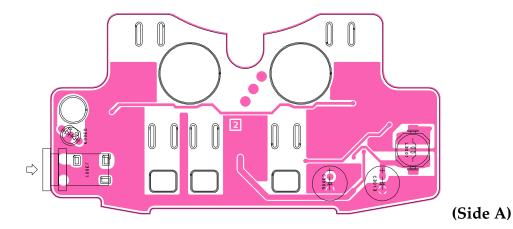
Ref.	VXSTD P/N	Description	Qty.
1	U24106020	BIND HEAD TAPTITE-B M2X6SUS	2
(2)	U24108020	BIND HEAD TAPTITE-B M2X8SUS	2

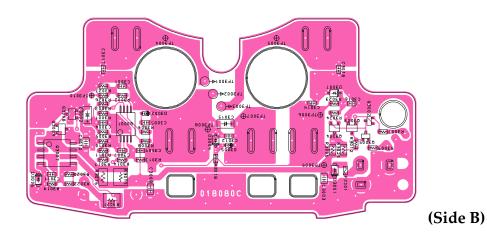
### Circuit Diagram



# CD-38 Charger Cradle

### Parts Layout





Pin 8

NJM2904V
(Q3001)

Pin 8

Pin 1

DTA114EUA
(Q3009)

Collector

Collector

Base Emitter

Base Emitter

Collector

RT1N241M (N2)
(Q3007)
(Q3002, 3005)
(Q3003, 3008)

# CD-38 Charger Cradle

Finited Circuit Bard	REF	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	.OT S	IDE	LAYADR
C 3001   CHIPCAP		Printed Circuit Board	•		•	AAF94X000	FR0180800	1.	-		
C 3004 CHIPCAP. 0.1 UF 25V B GRM/18811C104KA011 K 22148015 1- C 3006 ALEJECTRO,CAP. 0.1 UF 16V B GRM/18811C104KA011 K 22124805 1- C 3007 ALEJECTRO,CAP. 100 UF 50V B GRM/18811C104KA011 K 22124805 1- C 3007 CHIPCAP. 0.0 UF 50V B GRM/18811C104KA011 K 2214811 1- C 3008 CHIPCAP. 0.0 UF 50V B GRM/18811C104KA011 K 2214811 1- C 3010 CHIPCAP. 0.0 UF 50V B GRM/18811C104KA011 K 2214811 1- C 3011 CHIPCAP. 0.1 UF 50V B GRM/18811C104KA011 K 2214811 1- C 3011 CHIPCAP. 0.1 UF 50V B GRM/18811C104KA011 K 2214811 1- C 3011 CHIPCAP. 0.1 UF 50V B GRM/18811C104KA011 K 2214811 1- C 3011 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA011 K 2214811 1- C 3011 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA011 K 2214811 1- C 3012 CHIPCAP. 0.1 UF 16V GRM/18811C104KA011 K 2214815 1- C 3013 ALEJECTRO,CAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174821 1- C 3015 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3015 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3015 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3015 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3015 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3015 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3015 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3015 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174805 1- C 3010 CHIPCAP. 0.1 UF 16V B GRM/18811C104KA010 K 22174	C 3001		0.1uF	16V	В			1.	-		
C 3005											
C 3006 C CHIPCAP.  C 3006 ALECTROCAP.  C 3006 ALECTROCAP.  C 3007 C CHIPCAP.  C 3006 C CHIPCAP.  C 3007 C CHIPCAP.  C 3007 C CHIPCAP.  C 3008 C CHIPCAP.  C 3009 C CHIPCAP.  C 3009 C CHIPCAP.  C 3019 ALELECTROCAP.  C 3019 ALELECTROCAP.  C 3016 C CHIPCAP.  C 3017 C CHIPCAP.  C 3016 C CHIPCAP.  C 3017 C CHIPCAP.  C 3017 C CHIPCAP.  C 3018 C CHIPCAP.  C 3019 C CHIPCAP.  C 3010 C C C C C C C C C C C C C C C C C C						I -					
C 3006   ALELECTRO.CAP.   100UF   25V   B   GRM/188B11102KA01L   K22174821   1 -											
C 3007   CHIPCAP.					B			l l	1		
C 3009   CHIPCAP.   0.1 uF   25V   B   GRM/18B11E104KA01L   K22140611   1					R						
C 3000 CHIPCAP. 0.01uF 50V B GRM/88B1H102KA01D K22174821 1- C 3011 CHIPCAP. 0.01uF 50V B GRM/88B1H102KA01D K22174821 1- C 3012 CHIPCAP. 0.01uF 50V B GRM/88B1H102KA01D K22174821 1- C 3013 CHIPCAP. 0.01uF 16V B GRM/88B1H102KA01D K22174821 1- C 3013 CHIPCAP. 220uF 16V B GRM/88B1H102KA01D K22174821 1- C 3013 CHIPCAP. 10.0F 16V B GRM/88B1H102KA01D K22174821 1- C 3015 CHIPCAP. 10.0F 16V B GRM/88B1H102KA01D K22124805 1- C 3015 CHIPCAP. 10.0F 16V B GRM/88B1H102KA01D K22124805 1- C 3015 CHIPCAP. 10.0F 16V B GRM/88B1H102KA01D K22124805 1- C 3015 CHIPCAP. 10.0F 16V B GRM/88B1H102KA01D K22124805 1- C 3015 CHIPCAP. 10.0F 16V B GRM/88B1H102KA01D K22124805 1- C 3015 CHIPCAP. 10.0F 16V B GRM/88B1H102KA01D K22124805 1- C 3010 CHIPCAP. 10.0F 16V B GRM/88B1H102KA01D K22124805 1- C 3010 CHIPCAP. 10.0F 16V B GRM/88B1H102KA01D GRM/88B1 1- D 3002 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3003 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3004 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3005 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3006 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3007 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3007 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3007 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3008 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3009 DOCE B GRM/88B1 1- D 3009 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3009 DOCE B GRM/88B1 1- D 3009 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3009 DOCE B GRM/88B1 1- D 3009 DOCE B GRM/88B1H102KA01D GRM/88B1 1- D 3009 DOCE B GRM/88B1 1-								l l	1		
C 3010   CHIPCAP.								l l	1		
C 3011   CHIPCAP,								l l	1		
C 3014   CHIPCAP			0.001uF	50V	В	GRM188B11H102KA01D	K22174821	1-	-		
C 3015   CHIP CAP   C 3015   CHIP TA CAP   T 16V   B   GRM188B11C104KA01D   K22124805   1					В						
Capital   Chip   TacAp.   10uF   16V   TEESVAIC106M8R   K78120077   1-					_						
D 3001   DOCE   D 3002   DOCE   D 3003   LED   D 3004   D 3005   D 3006					В						
D 3002   DODE   D 3003   D			10uF	16V							
D 3003   LED   D 3004   DIODE   D 3005   DIODE   D 3006   DIODE   D 3006											
D 3004   DIODE   DIO											
D 3006   DIODE   DIODE   RSX400 TE61   C2070634   1- D 3007   DIODE   RSX101VA-30TR   C2070698   1- D 3007   DIODE   RSX101VA-30TR   C2070698   1- D 3007   DIODE   RSX101VA-30TR   C2070698   1- D 3007   DIODE   RSX101VA-30TR   C2070608   1- D 3007   DIODE   RSX101VA-30TR   C2070608   1- D 3007   DIODE   RSX101VA-30TR   C2070608   1- D 3007   DIODE   C41870											
D 3006   DIODE   DIO								l l	1		
D 3007   DIODE											
F3001   CHIPPUSE   3.15A											
1.3001   MRFC	F 3001		3.15A				Q0000118				
Q 3001 C	J 3001					LGP6501-0100C	P0091422	1.	-		
Q 3002 TRANSISTOR Q 3004 TRANSISTOR Q 3005 TRANSISTOR Q 3006 TRANSISTOR Q 3006 TRANSISTOR Q 3007 TRANSISTOR Q 3007 TRANSISTOR Q 3007 TRANSISTOR Q 3007 C DTC114TETL Q 3070229 1- Q 3008 TRANSISTOR Q 5007 C NJM2360AM-TE1 Q 3007025 1- NJM2360AM-TE1 Q 3007029 1- DTC114TETL Q 3070249 1- DTC114TETL Q			100uH								
Q 3003 TRANSISTOR Q 3004 TRANSISTOR Q 3005 TRANSISTOR Q 3005 TRANSISTOR Q 3006 TRANSISTOR Q 3006 TRANSISTOR Q 3007 C NUMBER OF A 3008 TRANSISTOR Q 3009 TRANSISTOR Q 3008 Q 3009 TRANSISTOR Q 3008 Q 3009 TRANSISTOR Q 3009 TRANSIST					1						
Q 3004 TRANSISTOR Q 2005 TRANSISTOR C 2007 TRANSISTOR C 2007 C 2008 TRANSISTOR C 2008 TRANSISTOR C 2008 TRANSISTOR C 2008 TRANSISTOR C 2009 TRANSISTOR C 200											
Q 3005 TRANSISTOR C Q 3007 C C NUM2360AM-TE1 G1093076 1- Q 3008 TRANSISTOR D1- Q 3008 TRANSISTOR D1- Q 3009 TRANSISTOR D1- Q 3000 D1- Q 3009 TRANSISTOR D1- Q 3000 D1											
Q 3008 TRANSISTOR Q 3008 TRANSISTOR R 3001 CHIPRES. R 3001 CHIPRES. R 3002 CHIPRES. R 3002 CHIPRES. R 3003 CHIPRES. R 3004 CHIPRES. R 3004 CHIPRES. R 3005 CHIPRES. R 3006 CHIPRES. R 3006 CHIPRES. R 3006 CHIPRES. R 3007 CHIPRES. R 3007 CHIPRES. R 3007 CHIPRES. R 3008 CHIPRES. R 3009 CHIPRES. R 3009 CHIPRES. R 3009 CHIPRES. R 3000 CHI											
Q 3009 TRANSISTOR Q 3009 TRANSISTOR R 3001 CHIPRES. 10k 1/16W 5% RMC1/16 103JATP J24185103 1- R 3002 CHIPRES. 180k 1/16W 1% RMC1/16 104FTP J24183104 1- R 3004 CHIPRES. 100k 1/16W 1% RMC1/16 104FTP J24183104 1- R 3005 CHIPRES. 100k 1/16W 1% RMC1/16 104FTP J24183104 1- R 3006 CHIPRES. 100k 1/16W 1% RMC1/16 104FTP J24183104 1- R 3007 CHIPRES. 100k 1/16W 5% RMC1/16 104FTP J24183104 1- R 3007 CHIPRES. 680 1/16W 5% RMC1/16 104FTP J24183104 1- R 3007 CHIPRES. 680 1/16W 5% RMC1/16 104FTP J24185681 1- R 3009 CHIPRES. 680 1/16W 5% RMC1/16 681JATP J24185681 1- R 3010 CHIPRES. 680 1/16W 5% RMC1/16 681JATP J24185681 1- R 3010 CHIPRES. 680 1/16W 5% RMC1/16 681JATP J24185681 1- R 3010 CHIPRES. 680 1/16W 5% RMC1/16 681JATP J24185681 1- R 3010 CHIPRES. 680 1/16W 5% RMC1/16 681JATP J24185681 1- R 3011 CHIPRES. 470k 1/16W 5% RMC1/16 681JATP J24185681 1- R 3011 CHIPRES. 470k 1/16W 5% RMC1/16 67103JATP J241856103 1- R 3011 CHIPRES. 470k 1/16W 5% RMC1/16 103JATP J24185103 1- R 3012 CHIPRES. 470k 1/16W 5% RMC1/16 103JATP J24185103 1- R 3013 CHIPRES. 470k 1/16W 1% RMC1/16 473FTP J24183474 1- R 3014 CHIPRES. 470k 1/16W 1% RMC1/16 473FTP J24183473 1- R 3015 CHIPRES. 470k 1/16W 1% RMC1/16 473FTP J24183473 1- R 3016 CHIPRES. 470k 1/16W 1% RMC1/16 473FTP J24183473 1- R 3017 CHIPRES. 470k 1/16W 1% RMC1/16 473FTP J24183473 1- R 3016 CHIPRES. 470k 1/16W 1% RMC1/16 473FTP J24183473 1- R 3017 CHIPRES. 470k 1/16W 1% RMC1/16 473FTP J24183473 1- R 3016 CHIPRES. 1 1/14W 5% RMC1/16 103JATP J24183473 1- R 3017 CHIPRES. 1 1/14W 5% RMC1/16 103JATP J24183402 1- R 3020 CHIPRES. 1 1/14W 5% RMC1/16 103JATP J24183102 1- R 3020 CHIPRES. 1 1/14W 5% RMC1/16 103JATP J24183102 1- R 3020 CHIPRES. 1 1/14W 5% RMC1/16 103JATP J24183102 1- R 3020 CHIPRES. 1 1/14W 5% RMC1/16 103JATP J24183102 1- R 3020 CHIPRES. 1 1/14W 5% RMC1/16 103JATP J24183102 1- R 3020 CHIPRES. 1 1/14W 5% RMC1/16 103JATP J24183102 1- R 3020 CHIPRES. 1 1/14W 5% RMC1/16 103JATP J24183104 1- R 3020 CHIPRES. 1 1/14W 5% RMC1/16 103JATP J24183104 1- R 3020 CHIPRES. 1 1/14W 5% RMC1/16 103JATP J24183103											
Q 3009       TRANSISTOR       DTA114EUA T106       G3070083       1-         R 3001       CHIPRES.       10k       1/16W       5%       RMC1/16 103JATP       J24185103       1-         R 3002       CHIPRES.       180k       1/16W       1%       RMC1/16 103JATP       J24183184       1-         R 3003       CHIPRES.       100k       1/16W       1%       RMC1/16 104FTP       J24183104       1-         R 3005       CHIPRES.       47k       1/16W       5%       RMC1/16 104FTP       J24183104       1-         R 3006       CHIPRES.       100k       1/16W       1%       RMC1/16 104FTP       J24185104       1-         R 3006       CHIPRES.       2.2k       1/10W       5%       RMC1/16 104FTP       J24185681       1-         R 3007       CHIPRES.       680       1/16W       5%       RMC1/16 6473JATP       J24185681       1-         R 3009       CHIPRES.       680       1/16W       5%       RMC1/16 681JATP       J24185681       1-         R 3011       CHIPRES.       10k       1/16W       5%       RMC1/16 681JATP       J24185681       1-         R 3012       CHIPRES.       470k       1/16W       5%											
R 3001 CHIPRES. 10k 1/16W 5% RMC1/16 103JATP J24185103 1- R 3002 CHIPRES. 100k 1/16W 1% RMC1/16 184FTP J24183184 1- R 3003 CHIPRES. 100k 1/16W 1% RMC1/16 184FTP J24183104 1- R 3004 CHIPRES. 47k 1/16W 5% RMC1/16 473JATP J24185473 1- R 3005 CHIPRES. 2.2k 1/10W 5% RMC1/16 104FTP J24183104 1- R 3006 CHIPRES. 2.2k 1/10W 5% RMC1/16 681JATP J24185681 1- R 3007 CHIPRES. 680 1/16W 5% RMC1/16 681JATP J24185681 1- R 3008 CHIPRES. 680 1/16W 5% RMC1/16 681JATP J24185681 1- R 3010 CHIPRES. 680 1/16W 5% RMC1/16 681JATP J24185681 1- R 3010 CHIPRES. 10k 1/16W 5% RMC1/16 103JATP J2418561 1- R 3011 CHIPRES. 10k 1/16W 5% RMC1/16 103JATP J24185103 1- R 3012 CHIPRES. 470k 1/16W 5% RMC1/16 474FTP J24183474 1- R 3012 CHIPRES. 470k 1/16W 5% RMC1/16 103JATP J24185103 1- R 3013 CHIPRES. 470k 1/16W 1% RMC1/16 474FTP J24183474 1- R 3015 CHIPRES. 470k 1/16W 1% RMC1/16 473FTP J24183473 1- R 3016 CHIPRES. 47k 1/16W 1% RMC1/16 473FTP J24183473 1- R 3016 CHIPRES. 3.3 1/8W 5% RMC1/16 473FTP J24183473 1- R 3016 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3016 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3017 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3018 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3010 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3011 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3012 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3013 CHIPRES. 1 1 1/4W 5% RMC1/16 472JATP J24183473 1- R 3016 CHIPRES. 1 1 1/4W 5% RMC1/16 472JATP J24183102 1- R 3017 CHIPRES. 1 1 1/4W 5% RMC1/16 103FTP J24183103 1- R 3020 CHIPRES. 1 1 1/4W 5% RMC1/16 103FTP J24183103 1- R 3021 CHIPRES. 1 1 1/4W 5% RMC1/16 103FTP J24183103 1- R 3022 CHIPRES. 1 1 1/4W 5% RMC1/16 103FTP J24183103 1- R 3022 CHIPRES. 1 1 1/4W 5% RMC1/16 103FTP J24183103 1- R 3023 CHIPRES. 1 1 1/4W 5% RMC1/16 103FTP J24183103 1- R 3024 CHIPRES. 1 1 1/4W 5% RMC1/16 103FTP J24183103 1- R 3025 CHIPRES. 1 10k 1/16W 1% RMC1/16 103FTP J24183103 1- R 3027 CHIPRES. 1 10k 1/16W 1% RMC1/16 103FTP J24183103 1- R 3027 CHIPRES. 1 10k 1/16W 1% RMC1/16 103FTP											
R 3002 CHIPRES. 180k 1/16W 1% RMC1/16 184FTP J24183184 1- R 3003 CHIPRES. 100k 1/16W 5% RMC1/16 104FTP J24183104 1- R 3005 CHIPRES. 100k 1/16W 5% RMC1/16 104FTP J24183104 1- R 3006 CHIPRES. 2.2k 1/10W 5% RMC1/16 104FTP J24183647 1- R 3007 CHIPRES. 680 1/16W 5% RMC1/10 12CJ J24185681 1- R 3008 CHIPRES. 680 1/16W 5% RMC1/16 681JATP J24185681 1- R 3000 CHIPRES. 680 1/16W 5% RMC1/16 103JATP J24185681 1- R 3010 CHIPRES. 10k 1/16W 5% RMC1/16 103JATP J24185681 1- R 3010 CHIPRES. 10k 1/16W 5% RMC1/16 103JATP J24185681 1- R 3011 CHIPRES. 10k 1/16W 5% RMC1/16 103JATP J24183681 1- R 3012 CHIPRES. 470k 1/16W 1% RMC1/16 474FTP J24183474 1- R 3013 CHIPRES. 470k 1/16W 1% RMC1/16 474FTP J24183474 1- R 3014 CHIPRES. 470k 1/16W 1% RMC1/16 473FTP J24183474 1- R 3015 CHIPRES. 470k 1/16W 1% RMC1/16 473FTP J24183473 1- R 3016 CHIPRES. 47k 1/16W 1% RMC1/16 473FTP J24183473 1- R 3017 CHIPRES. 3.3 1/8W 5% RMC1/16 473FTP J24183473 1- R 3017 CHIPRES. 47k 1/16W 5% RMC1/16 473FTP J24183473 1- R 3017 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3018 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3010 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3011 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3012 CHIPRES. 1 1 1/4W 5% RMC1/16 473FTP J24183473 1- R 3013 CHIPRES. 47k 1/16W 1% RMC1/16 473FTP J24183473 1- R 3010 CHIPRES. 1 1 1/4W 5% RMC1/16 103FTP J24183473 1- R 3011 CHIPRES. 1 1/16W 1% RMC1/16 473FTP J24183473 1- R 3012 CHIPRES. 1 1/16W 1% RMC1/16 473FTP J24183473 1- R 3013 CHIPRES. 1 1/16W 5% RMC1/16 103FTP J24183662 1- R 3020 CHIPRES. 1 1/16W 5% RMC1/16 103FTP J24183104 1- R 3021 CHIPRES. 1 1/16W 5% RMC1/16 103FTP J24183104 1- R 3022 CHIPRES. 1 00k 1/16W 5% RMC1/16 103FTP J24183103 1- R 3024 CHIPRES. 1 1/16W 1/16			10k	1/16W	5%						-
R 3004 CHIPRES.											
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R 3023 CHIPRES. 10k 1/16W 5% RMC1/16 103JATP J24185103 1- R 3024 CHIPRES. 0 1/16W 5% RMC1/16 000JATP J24185000 1- R 3025 CHIPRES. 2.2k 1/10W 5% RMC1/10T 222J J24205222 1- R 3026 CHIPRES. 180k 1/16W 1% RMC1/16 184FTP J24183184 1- R 3027 CHIPRES. 10k 1/16W 1% RMC1/16 103FTP J24183103 1- TERMINAL PLATE RA0997000 1- TERMINAL (GPS) RA0997100 1-								l l	1		
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R 3025 CHIPRES. 2.2k 1/10W 5% RMC1/10T 222J J24205222 1- R 3026 CHIPRES. 180k 1/16W 1% RMC1/16 184FTP J24183184 1- R 3027 CHIPRES. 10k 1/16W 1% RMC1/16 103FTP J24183103 1- TERMINAL PLATE RA0997000 1- TERMINAL (GPS) RA0997100 1-								l l	1		
R 3026 CHIPRES. 180k 1/16W 1% RMC1/16 184FTP J24183184 1- R 3027 CHIPRES. 10k 1/16W 1% RMC1/16 103FTP J24183103 1- TERMINAL PLATE RA0997000 1- TERMINAL (GPS) RA0997100 1-								l l	1		
R 3027 CHIPRES. 10k 1/16W 1% RMC1/16 103FTP J24183103 1- TERMINAL PLATE RA0997000 1- TERMINAL (GPS) RA0997100 1-		-						l l	1		
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